EXHIBIT CJ

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Claim 1	Accused Instrumentalities
[1.0] A computing device comprising:	Accused Instrumentalities Google's "Cast" technology enables an "Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system," where the app "becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media." https://developers.google.com/cast. ¹ In Google's "Cast" framework, there are two core categories of devices: (1) "sender" devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL² (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2) "receiver" devices, which are Cast-enabled media players such as an audio or video playback device. *See, e.g., https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary: https://developers.google.com/cast/docs/ux guidelines. There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user's smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app. This includes Google's own Cast-enabled apps, such as the YouTube Music app, the YouTube app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. *See, e.g., https://support.google.com/chromecast-enabled-apps-to-your-audio-device*2Cfind-new-content-to-cast; https://www.google.com/chromecast-built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google's own "Pixel" smartphone, tablet, and computer devices (e.g., the Pixel, Pixel AL, Pixel 4, Pixel 4, Pixel 4 AL, Pixel 4 AL, Pixel 4, Pix
	computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (e.g., accessed

¹ Additional information regarding the accused instrumentalities is set forth in the Infringement Contention Chart for U.S. Patent No. 9,967,615 (Ex. A), which is incorporated herein by reference.

² See, e.g., https://support.google.com/chromecast/answer/3265953?hl=en.

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Claim 1	Accused Instrumentalities
	via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app will be referred to as a "Cast-enabled computing device."
	As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices meeting elements 1.1, 1.2, and 1.3, but notes that the hardware aspects recited in elements 1.1, 1.2, and 1.3 have become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains these aspects and thus meets elements 1.1, 1.2, and 1.3.
	There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.</i> , https://store.google.com/us/product/google_home_max?hl=en-US; ; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; ; https://www.google.com/chromecast/built-in/audio/.
	Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as "Cast-enabled displays," includes Google's Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.</i> , https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en . Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps)

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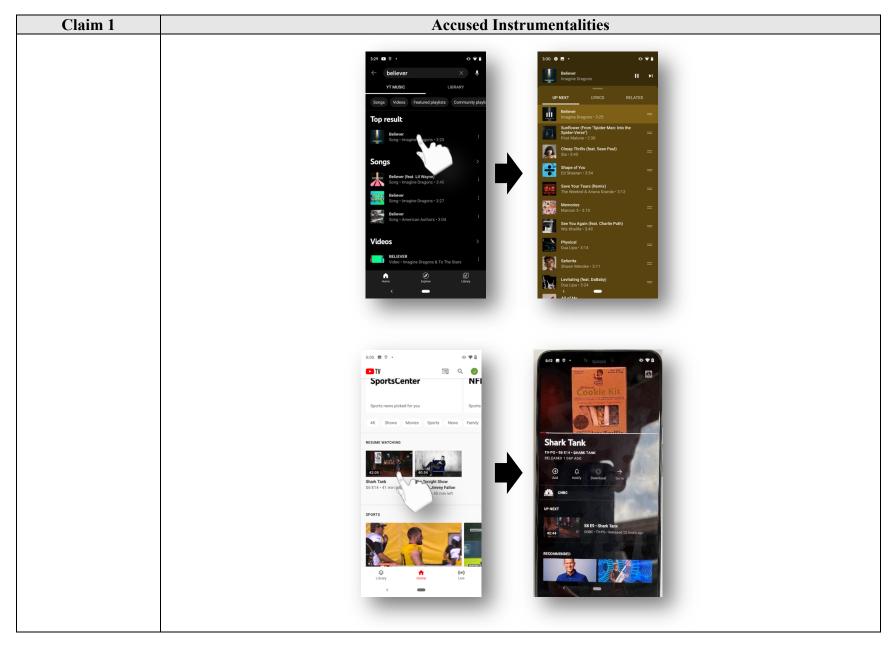
Claim 1	Accused Instrumentalities
	that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player's playback using the Cast-enabled display's user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as "Cast-enabled control devices."
	Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or "GCP" for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player's playback.
	As described in further detail below, each Cast-enabled control device is a "computing device," as recited in claim 1. Further, because each Cast-enabled media player is a data network device (<i>i.e.</i> , a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a "playback device" as recited in claim 1. <i>See</i> , <i>e.g.</i> , Pl.'s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.'s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; ; https://support.google.com/chromecast/answer/3046409?hl=en;
[1.1] at least one	https://store.google.com/us/product/nest_wifi_specs?hl=en-US. Each Cast-enabled control device includes at least one processor. <i>See, e.g.</i> ,
processor;	https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.
[1.2] a non-	Each Cast-enabled control device includes a non-transitory computer-readable medium. See, e.g.,
transitory	https://store.google.com/us/magazine/compare_pixel;
computer-readable	https://store.google.com/us/product/google_pixelbook_specs;
medium;	https://store.google.com/us/product/pixel_slate_specs;
	https://store.google.com/us/product/google_home_max?hl=en-US.

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Claim 1	Accused Instrumentalities
[1.3] and program	Each Cast-enabled control device includes program instructions stored on the non-transitory computer-
instructions stored	readable medium that enable the Cast-enabled control device to perform the functions identified below. See,
on the non-	e.g., https://store.google.com/us/magazine/compare_pixel ;
transitory	https://store.google.com/us/product/google_pixelbook_specs;
computer-readable	https://store.google.com/us/product/pixel_slate_specs;
medium that, when	https://store.google.com/us/product/google_home_max?hl=en-US.
executed by the at	
least one processor,	
cause the	
computing device	
to perform	
functions	
comprising:	
[1.4] operating in a	Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's
first mode in which	non-transitory computer-readable medium that, when executed by the Cast-enabled control device's
the computing	processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control
device is	device is configured for playback of a remote playback queue provided by a cloud-based computing system
configured for	associated with a cloud-based media service.
playback of a	
remote playback	For instance, each Cast-enabled computing device is programmed with the capability to operate in a mode in
queue provided by	which the Cast-enabled computing device is configured for playback of a remote playback queue provided by
a cloud-based	a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-
computing system	based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids,
associated with a	etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and
cloud-based media	accessible over the Internet, which may be operated by Google or a third-party service provider. See, e.g.,
service;	https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your
	speaker or display]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the
	YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
	media from one cast device to another];
	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
	YouTube TV using Chromecast];
	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch

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Claim 1	Accused Instrumentalities
	YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en
	[Chromecast-enabled site vs. casting a tab]; https://support.google.com/youtube/answer/6327615?hl=en
	[Autoplay videos]; https://developers.google.com/cast/docs/web_receiver/queueing ;
	https://developers.google.com/cast/docs/ios_sender/queueing;
	https://developers.google.com/cast/docs/android sender/queueing; see also, e.g., GOOG-SONOSWDTX-00042745
	00042743
	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed
	to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and
	YouTube Kids apps, as illustrated by the following screenshots:
	Sof ■ 0 -
	The Intel Colin COES CRAZY Claveland
	Booms may be **Locand-bent* team in ACC with B. Company Compa



Claim 1 **Accused Instrumentalities** Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot: Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.

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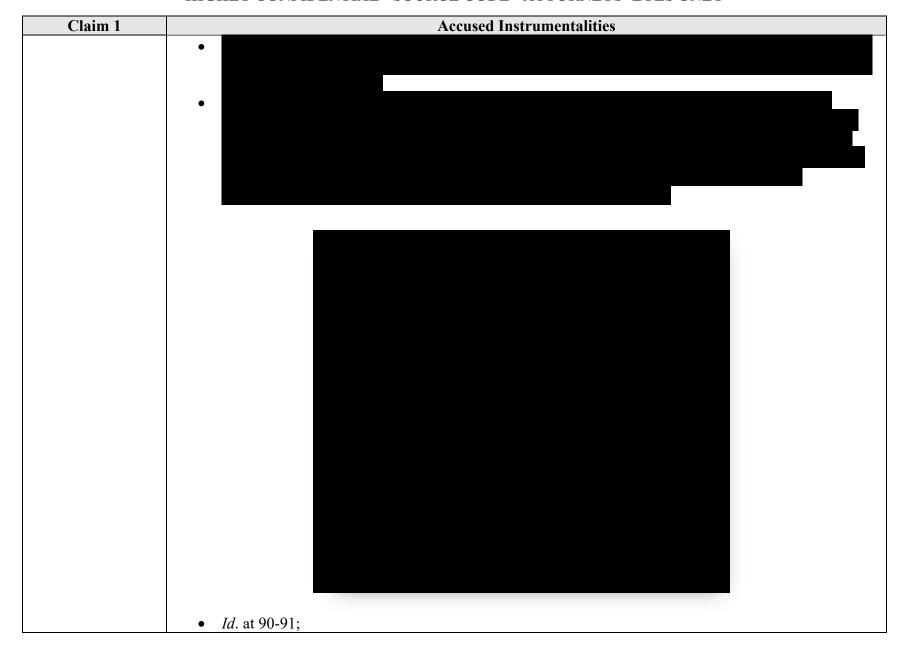
Claim 1	Accused Instrumentalities
	Each Cast-enabled display is also programmed with the capability to operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled display and accessible over the Internet, which may be operated by Google or a third-party service provider. <i>See</i> , e.g., https://store.google.com/us/product/google_nest_hub_max?hl=en-US ("[J]am out with YouTube Music."); https://store.google.com/google.com/googlenest/answer/9165738?hl=en ("With YouTube built-in to your Google Nest display, you can watch YouTube Originals, how-to videos and much more, seamlessly on your screen."). Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:
	Search results for onside kick jomboy Onside Kick & Fake Spik- to a wild comeback for Jomboy Media 1.3M views • 9 months ago SBSK views • 1 year ago Jomboy Media NEF Films IdM views

Claim 1 **Accused Instrumentalities** Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo: Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality. Further details regarding how a Cast-enabled control device carries out this functionality, along with representative examples of other evidence demonstrating this functionality, are summarized below. YouTube, YouTube Music, YouTube TV, & YouTube Kids apps Each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that it can operate in a mode in which the Cast-enabled computing

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Claim 1	Accused Instrumentalities
	device is configured for playback of a remote playback queue (a "Watch Next" queue) provided by one or more cloud servers (e.g., a "Watch Next," associated with the YouTube, YouTube Music, YouTube TV, or YouTube Kids media service. The aforementioned functionality satisfies claim limitation 1.4.
	The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:
	 https://support.google.com/youtubekids/answer/6130531?hl=en [Recommended videos]; https://support.google.com/youtubekids/answer/6138623?hl=en&co=GENIE.Platform%3DAndroid [Accessibility on YouTube Kids] ("When autoplay is turned on, we'll automatically play another related video.");

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B – Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

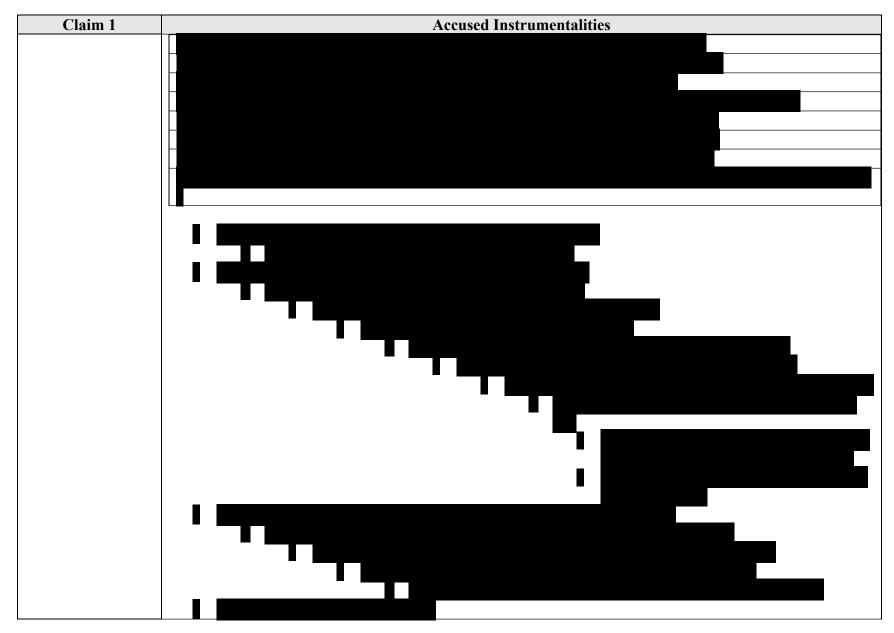
Claim 1	Accused Instrumentalities
	Representative excerpts of Google's YouTube app source code ³ related to the aforementioned functionality include:

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

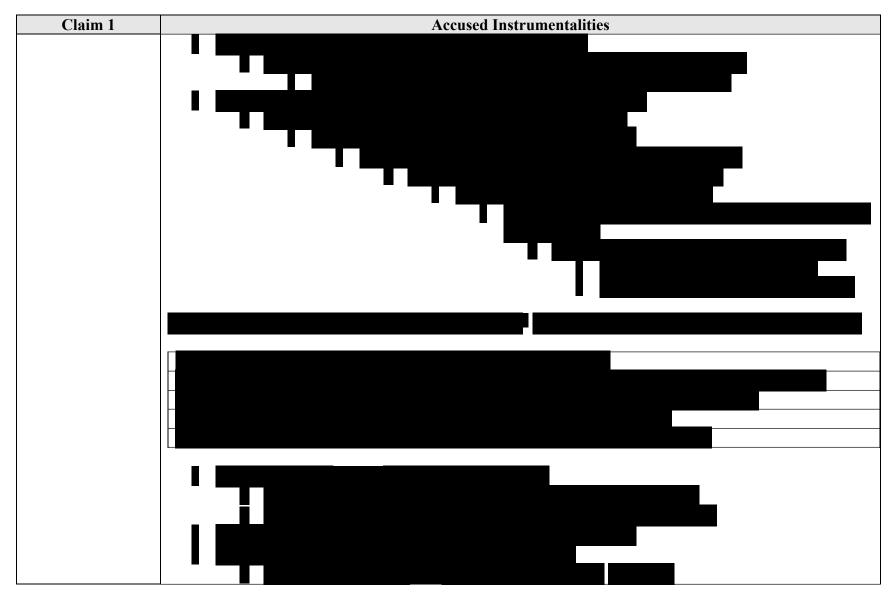


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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	Spotify app
	Each Cast-enabled computing device installed with the Spotify app is programmed such that it can operate in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by one or more cloud servers associated with the Spotify media service. The aforementioned functionality satisfies claim limitation 1.4.
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	Cast-Enabled Displays
	Each Cast-enabled display is programmed such that it can operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by one or more cloud servers

Claim 1	Accused Instrumentalities
	associated with a particular media service that the Cast-enabled display was selected to playback from (e.g., YouTube, YouTube Music, Spotify, etc.). The aforementioned functionality satisfies claim limitation 1.4.
	The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:
	• https://developers.google.com/cast/docs/web_receiver/queueing?hl=en ("Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google's and partner's cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices.").
	Representative excerpts of Google's Cast-enabled display source code ⁶ related to the aforementioned functionality include:

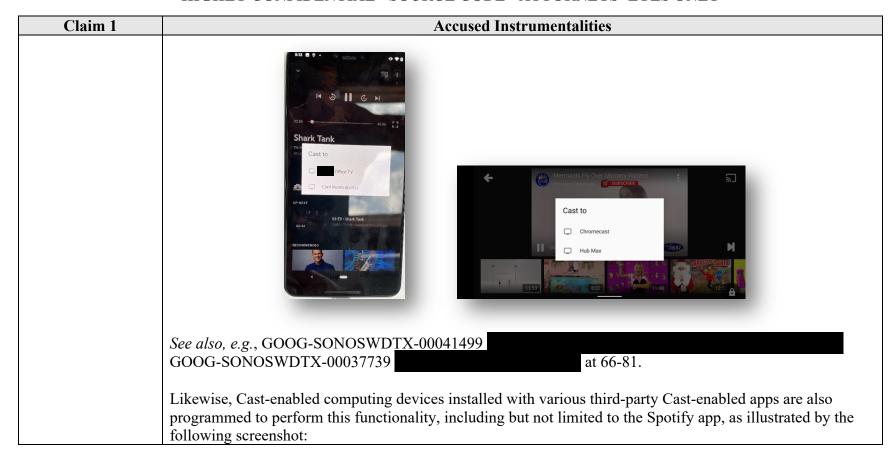
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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.5] while operating in the first mode, displaying a representation of one or more	Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue.
playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;	For instance, each Cast-enabled computing device is programmed such that, while operating in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party service such as Spotify, etc.), the Cast-enabled computing device is operable to detect a selection of a displayed selectable option for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled computing device to another device, which triggers the Cast-enabled computing device to display a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled computing device over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> , e.g., https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] ("Tap the Cast button Tap the speaker or display for which you'd like to cast.");
	https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] ("2. In the top right corner, tap the Cast button \(\text{\tex{\tex

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Claim 1	Accused Instrumentalities
	YouTube TV using Chromecast] ("Tap Cast \square. This is found at the top of the app Home screen. []Choose the device you want to cast to.");
	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].
	Under the plain and ordinary meaning of the term "data network," which is a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other, a Wi-Fi network is a "data network" as that term is used in claim 1. <i>See, e.g.,</i> Pl.'s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 23-26, Exs. 24-25; Pl.'s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 10-12, Exs. 26-27.
	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:
	Cast to Cas

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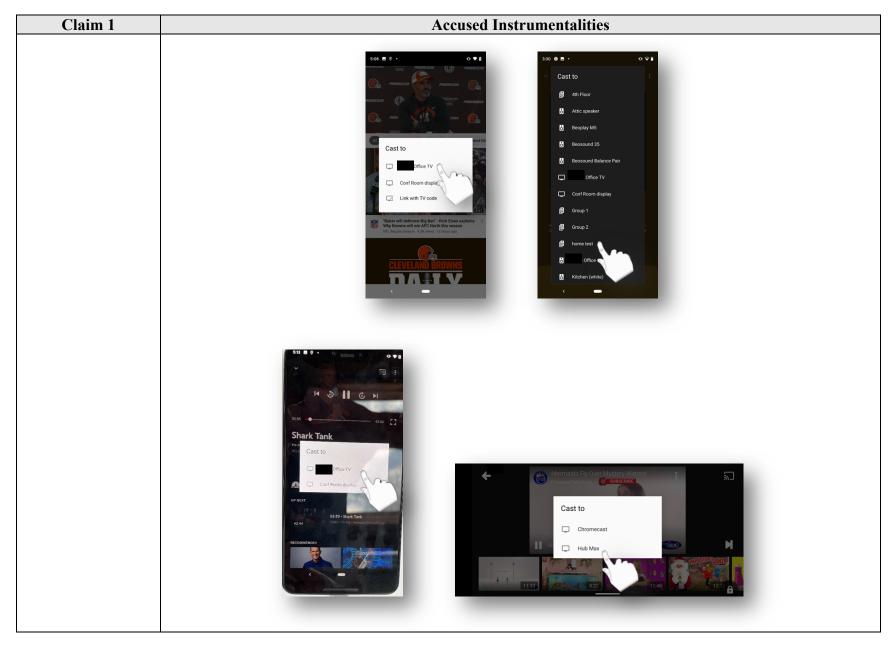
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Claim 1	Accused Instrumentalities
	Listening on
	Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/ . Each Cast-enabled display is also programmed such that, while operating in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.), the Cast-enabled display is operable to detect a selection of a displayed selectable option for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled display to another device, which triggers the Cast-enabled display to display a list of available devices for transferring playback that includes one or more other Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled display over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. See, e.g., https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to

Claim 1	Accused Instrumentalities
	another] ("At the bottom-left corner of the screen, tap Devices to see the list of available devices and speaker groups Select the device for which you want to move your media."). Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:
	Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:
	Now playing Nest Audio 1 Nest Audio 2 Cast to group 2 New Bluetooth devic
	Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.6] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories. Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. For instance, each Cast-enabled computing device is programmed such that, while displaying the representation of the one or more Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled computing device and available to accept playback responsibility for the remote playback queue, the Cast-enabled computing device is configured to receive user input indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system, which is the claimed "at least one given playback device" selected from "the one or more playback devices." See, e.g., https://support.google.com/google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] ("Tap the speaker or display) for which you'd like to cast."); https://support.google.com/chromecast/answer/62793847hl=en [Cast audio from Chromecast-enabled apps to speakers] ("3. Choose your speaker."); https://support.google.com/chromecast/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] ("4. Choose the device you want to cast to."); https://support.google.com/youtubekids/answer/62894087hl=en&co=GENIE.Platform%3DAndroid&hl=en-IN [Move media from one cast device to another]. Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:



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	See also, e.g., GOOG-SONOSWDTX-00041499
	GOOG-SONOSWDTX-00037739 at 66-81.
	Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:
	Listening on The plane Softer a device Copy 2 Copy 2 Copy 3 Copy 4 Copy 6 Cop
	Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i> , https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/ .
	Each Cast-enabled display is also programmed such that, while displaying the representation of the one or more other Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled display and available to accept playback responsibility for the remote playback queue, the Cast-enabled display is configured to receive user input indicating a selection of at least one other Cast-enabled media player in the Cast-enabled playback system, which is the claimed "at least one given playback device" selected from "the one or more playback devices." <i>See, e.g.</i> ,

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Claim 1	Accused Instrumentalities
	https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] ("Select the device(s) to which you want to move your media."). Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:
	Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo: Various other Cast-enabled apps available for in_adlation on Cast-enabled displays provide similar functionality.

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.7] based on	Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's
receiving the user	non-transitory computer-readable medium that, when executed by the Cast-enabled control device's
input, transmitting	processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction
an instruction for	for the at least one given Cast-enabled media player to take over responsibility for playback of the remote
the at least one	playback queue from the Cast-enabled control device, wherein the instruction configures the at least one
given playback	given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to
device to take over	obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the
responsibility for	obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media
playback of the	service, and (iii) play back the retrieved at least one media item.
remote playback	
queue from the	For instance, each Cast-enabled control device is programmed such that, based on receiving user input
computing device,	indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system that is on
wherein the	the same Wi-Fi network as the Cast-enabled control device and available to accept playback responsibility for
instruction	the remote playback queue, the Cast-enabled control device is operable to transmit an instruction for the at
configures the at least one given	least one Cast-enabled media player (which is the claimed "at least one given playback device") to take over responsibility for playback of the remote playback queue from the Cast-enabled computing device, where the
playback device to	instruction configures the at least one Cast-enabled media player to:
(i) communicate	instruction configures the at least one Cast-enabled media player to.
with the cloud-	• communicate with one or more cloud servers associated with a cloud-based media service (e.g., a
based computing	Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party
system in order to	service such as Spotify, etc.) that is remote from the Cast-enabled computing device and the at least
obtain data	one Cast-enabled media player and accessible over the Internet, which may be operated by Google or
identifying a next	a third-party service provider, in order to obtain data identifying a next one or more media items that
one or more media	are in the remote playback queue (e.g., resource locators for such media items),
items that are in the	 use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-
remote playback	based media service; and
queue, (ii) use the	 play back the retrieved at least one media item.
obtained data to	projection and resize , each of resize trem.
retrieve at least one	

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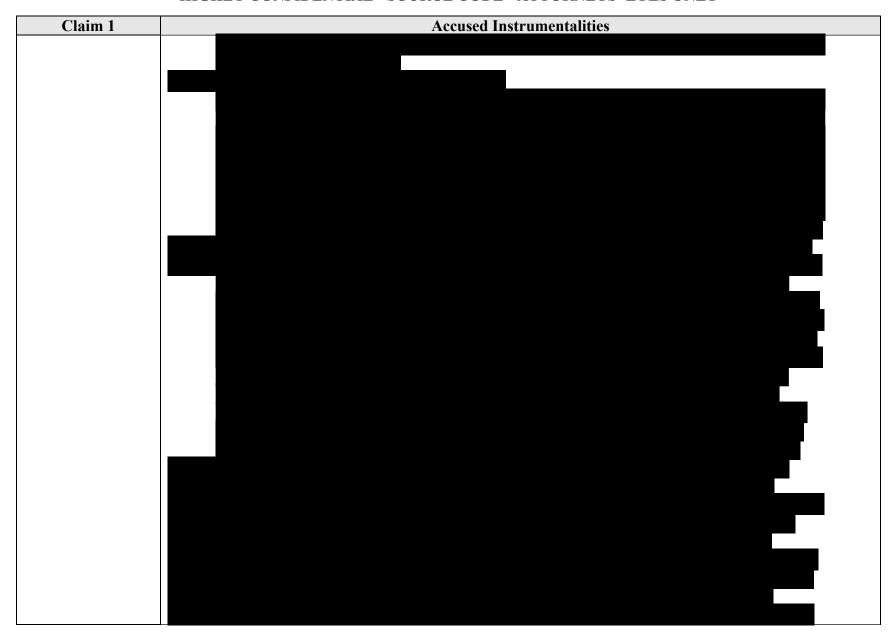
Claim 1	Accused Instrumentalities
media item in the	See, e.g., https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps
remote playback	to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from
queue from the	Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU
cloud-based media	[Cast from the YouTube app and YouTube.com];
service; and (iii)	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
play back the	YouTube TV using Chromecast];
retrieved at least	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
one media item;	YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
	media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing ;
	https://developers.google.com/cast/docs/ios_sender/queueing ("The Web Receiver SDK maintains the queue
	and responds to operations on the queue as long as the queue has at least one item currently active (playing or
	paused)."); https://developers.google.com/cast/docs/android_sender/queueing ("The Receiver SDK maintains
	the queue and responds to operations on the queue as long as the queue has at least one item currently active
	(playing or paused).").
	As noted above, Google's own documents acknowledge that each Cast-enabled media player (often referred
	to by Google as a ⁷) is programmed to maintain a local playback queue of one or more resource
	locators, each for multimedia content (e.g., a song or video) that is to be played back by the Cast-enabled
	media player. See, e.g.,

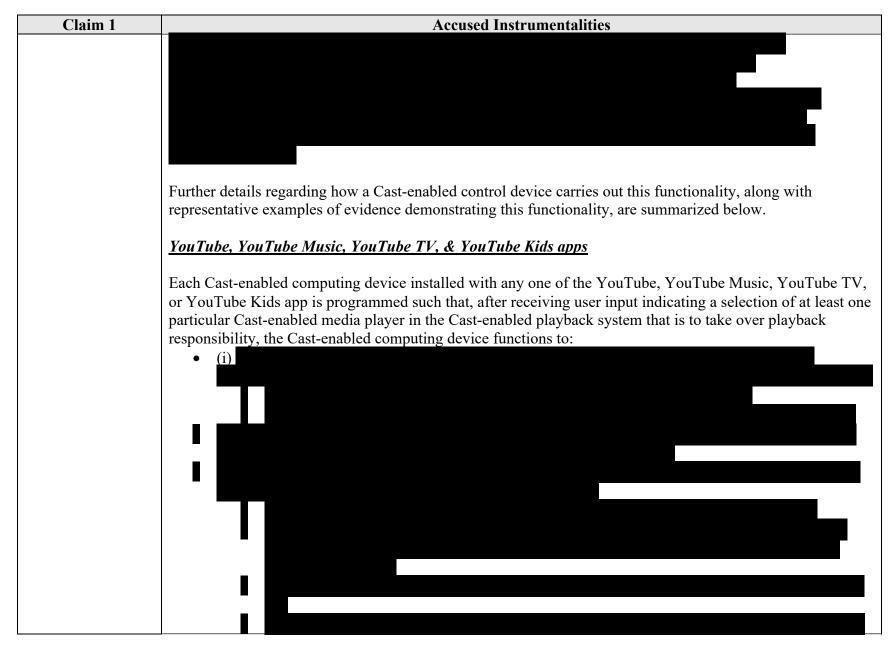


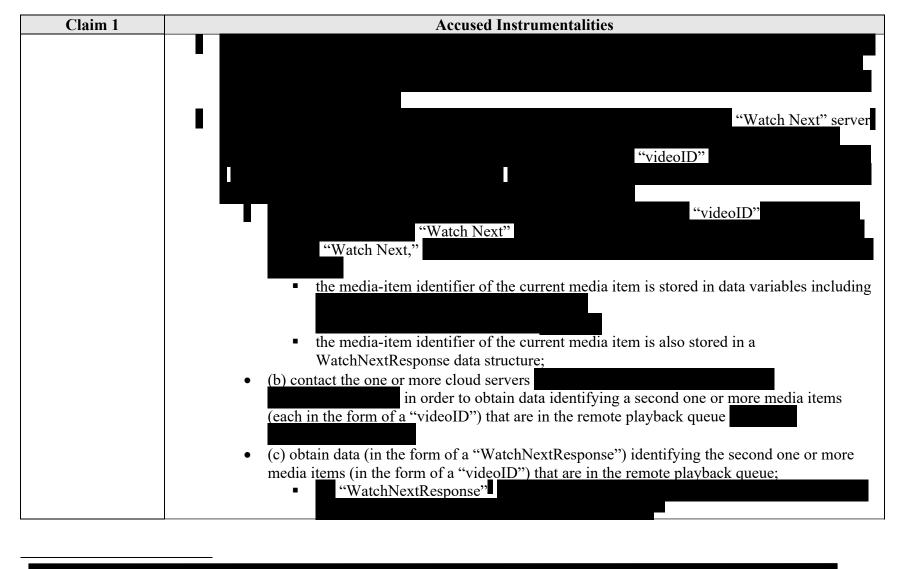
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Claim 1	Accused Instrumentalities
	; https://developers.google.com/cast/docs/ios_sender/queueing ("The Web Receiver SDK
	maintains the queue and responds to operations on the queue as long as the queue has at least one item currently active (playing or paused)."); see also, e.g.,

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

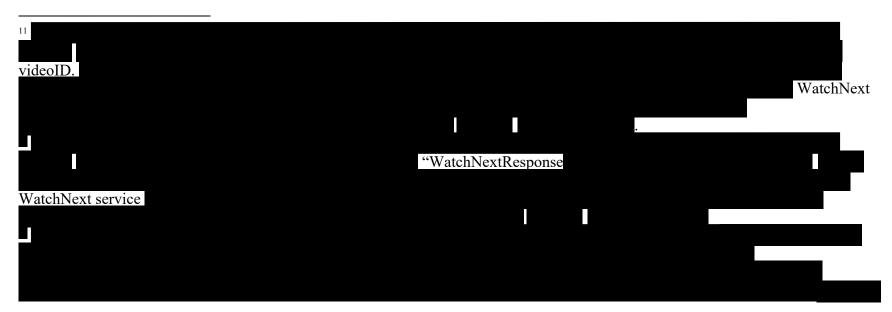


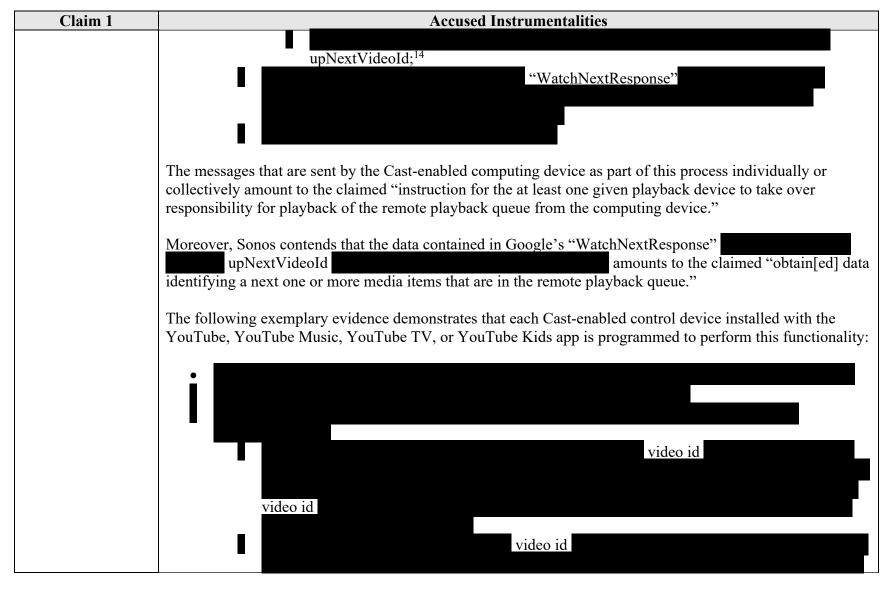




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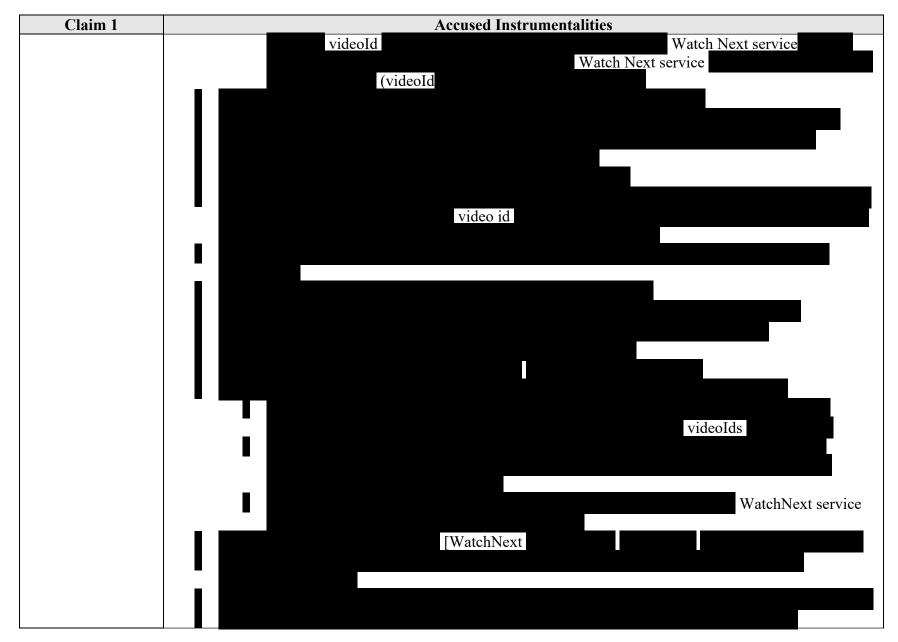
Claim 1	Accused Instrumentalities
	Sonos notes that Google did not produce for review the source code defining
	 WatchNextResponse" Sonos notes that Google did not produce for review the source code defining videoID Sonos also notes that Google did not produce for review the source code
	videoID values for the previous
	media item and next media item to be played, if applicable; ¹³



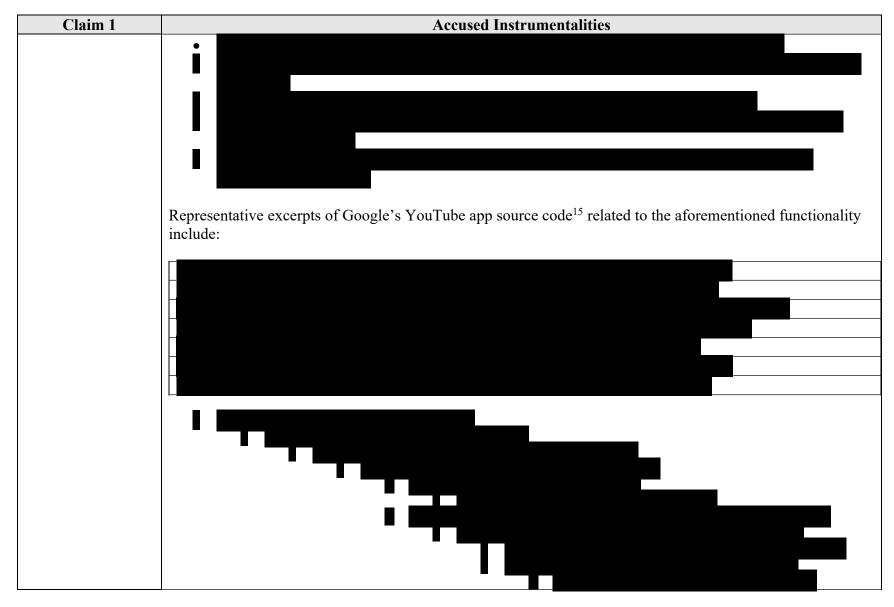


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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

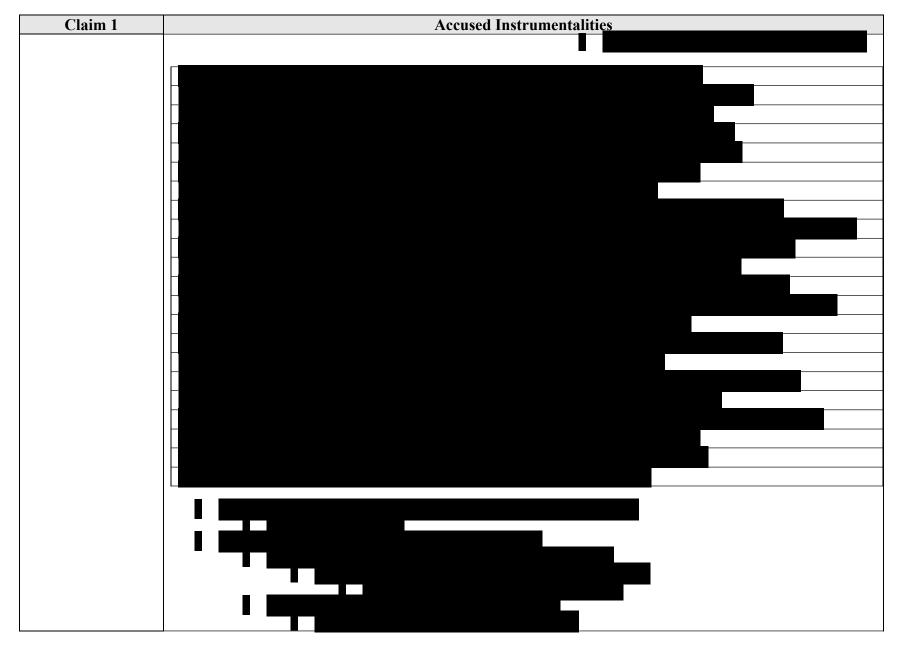


Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

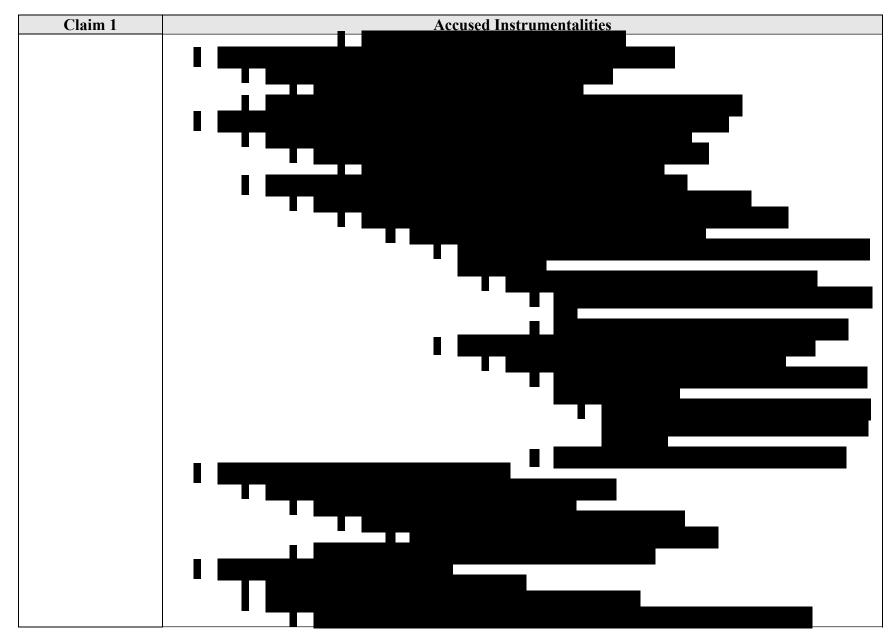


15

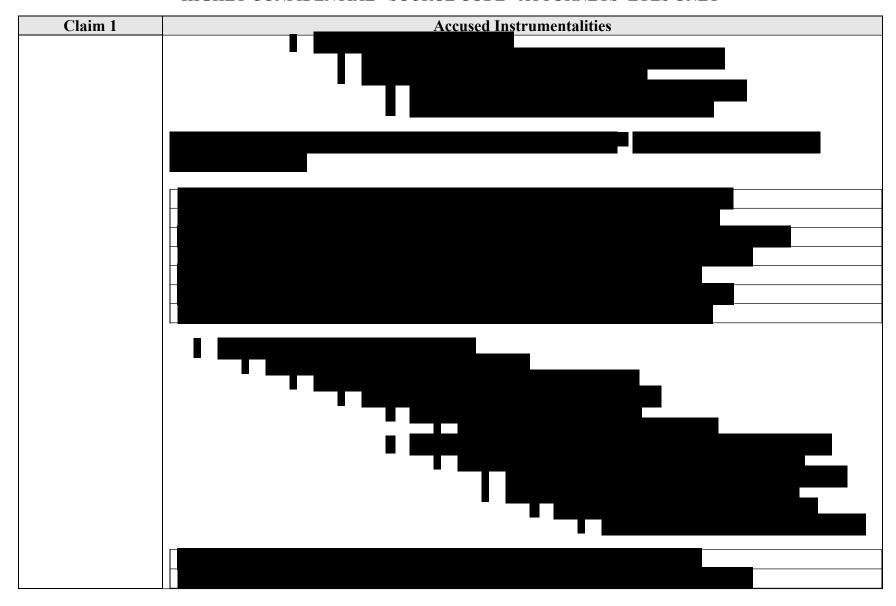
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

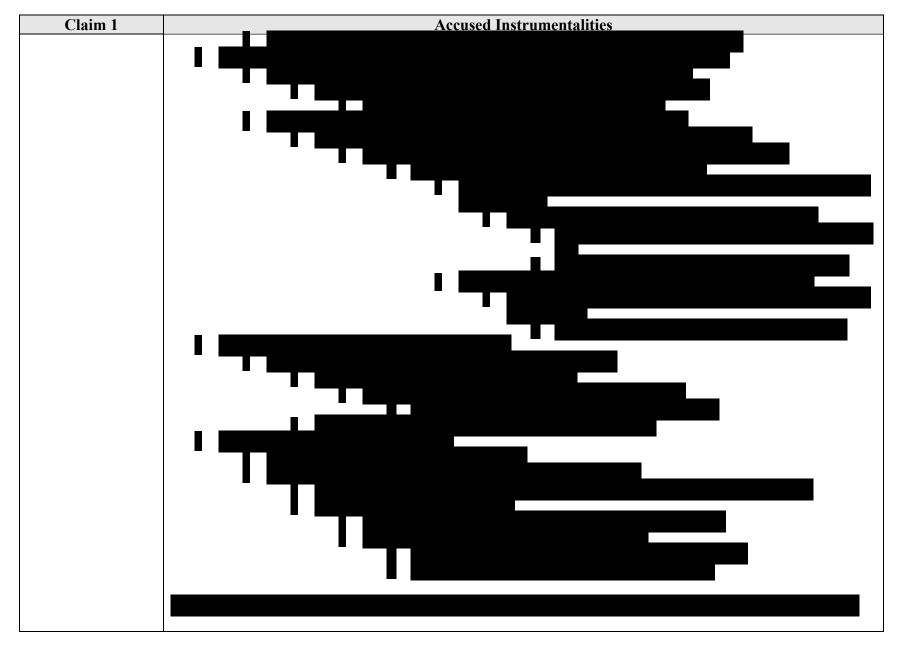


5

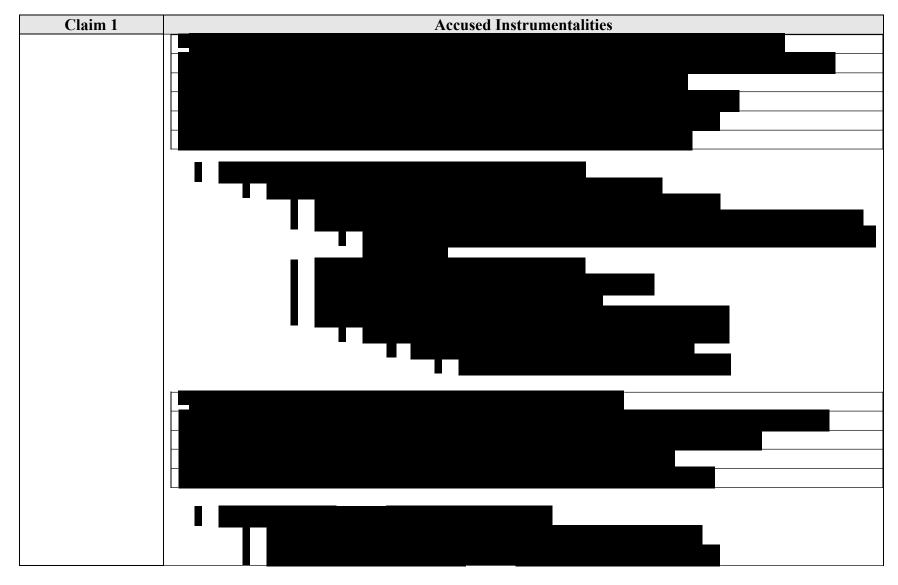
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

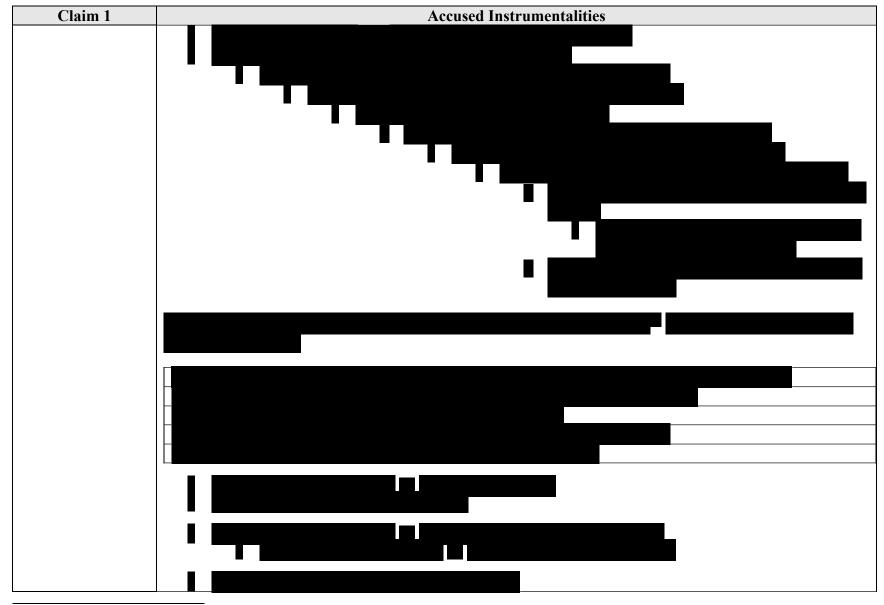


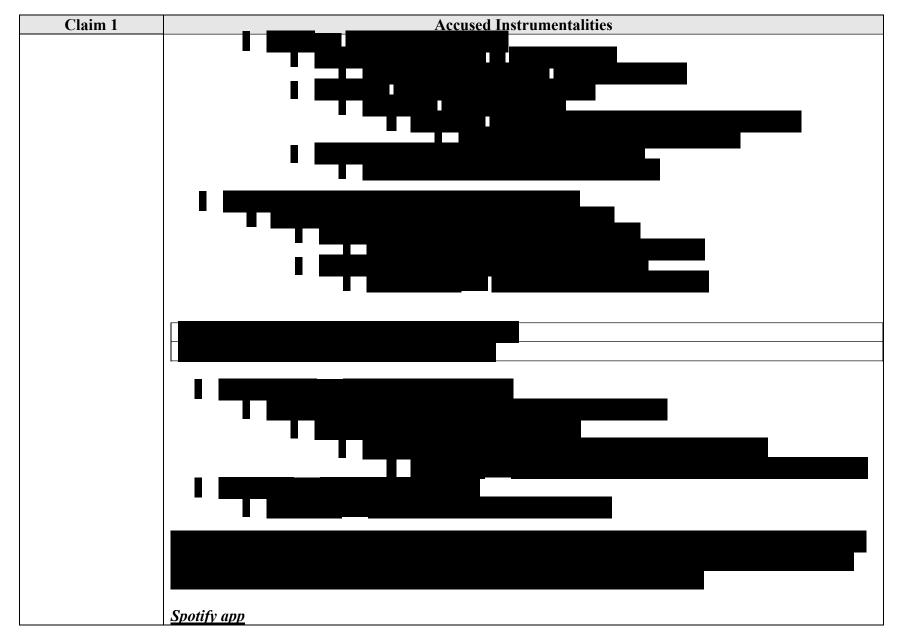
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

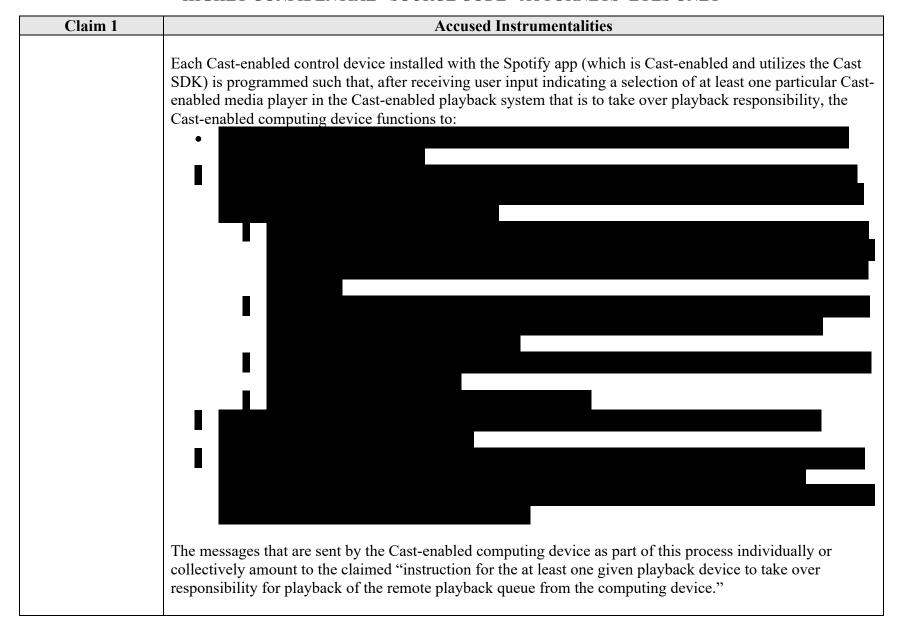


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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

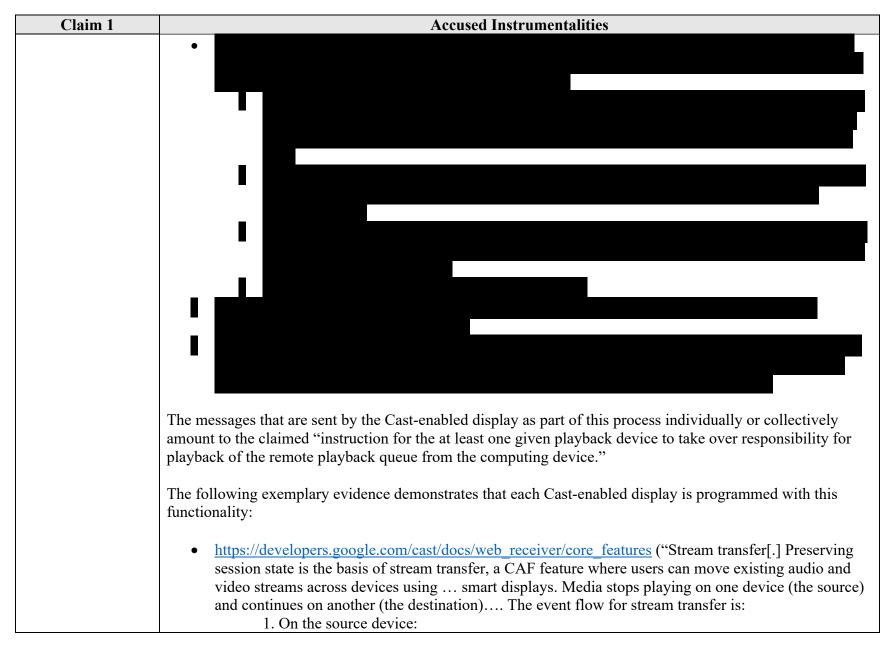




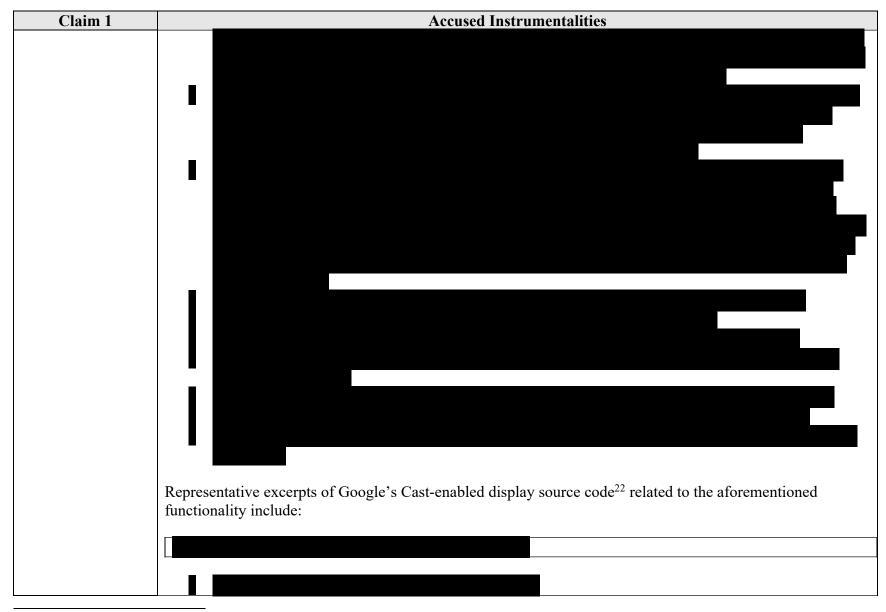


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Claim 1	Accused Instrumentalities
	The following exemplary evidence demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality:
	 https://developers.google.com/cast/docs/web_receiver/queueing?hl=en ("Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google's and partner's cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices."); https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo; https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.LoadRequest.
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory Nos. 14-15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	<u>Cast-Enabled Displays</u>
	Each Cast-enabled display is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled display functions to:



Claim 1	Accused Instrumentalities
	a. Media stops playing.
	b. The Web Receiver application receives a command to save the current media state.
	c. The Web Receiver application is shut down.
	2. On the destination device:
	a. The Web Receiver application is loaded.b. The Web Receiver application receives a command to restore the saved media state.
	c. Media resumes playing.
	Elements of media state include:
	 Specific position or timestamp of the song, video, or media item.
	 Its place in a broader queue (such as a playlist or artist radio).
	• The authenticated user.
	 Playback state (for example, playing or paused)."),
	• <i>Id.</i> ("Preserving session state[.] The Web Receiver SDK provides a default implementation for Web
	Receiver apps to preserve session states by taking a snapshot of current media status, converting the
	status into a load request, and resuming the session with the load request.");
	• https://developers.google.com/cast/docs/reference/web_receiver/cast.framework.messages.LoadReque
	stData [Class: LoadRequestData];
	• https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo [Class:
	MediaInfo];



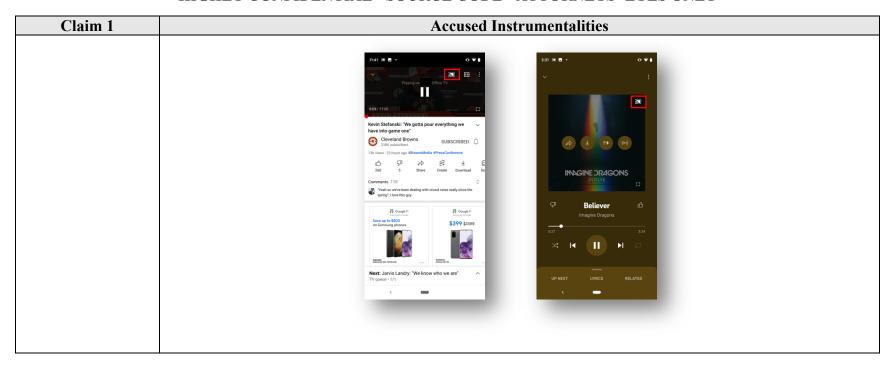
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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory Nos. 14-15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.8] detecting an indication that	Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's
playback responsibility for	processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least
the remote	one given Cast-enabled media player.
playback queue has been successfully transferred from the	For instance, each Cast-enabled computing device is programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-

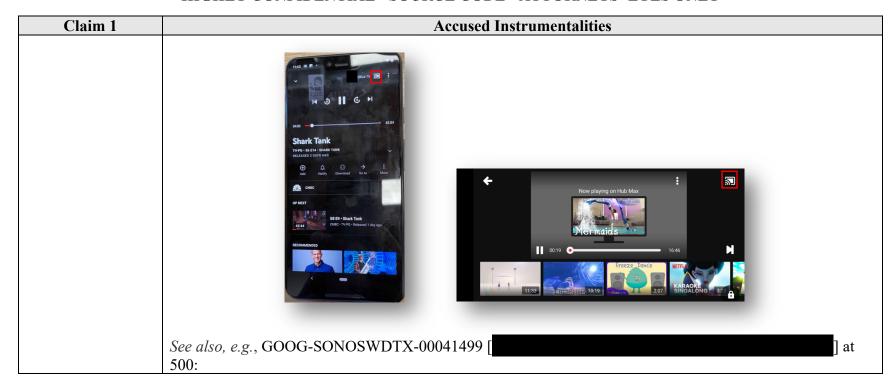
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Claim 1	Accused Instrumentalities
computing device	enabled computing device to at least one Cast-enabled media player (which is the claimed "at least one given
to the at least one	playback device"), which is demonstrated by the fact that the Cast-enabled computing device displays an
given playback	indicator that playback responsibility for the remote playback queue has been successfully transferred to the
device;	at least one Cast-enabled media player that takes the form of a "Cast button" that is "filled in" or turns "dark
	grey" (among other factors confirming that the Cast-enabled computing device has detected an indication that
	playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-
	enabled media player). See, e.g., https://support.google.com/googlenest/answer/7181830 [Play media from
	Chromecast-enabled apps to your speaker or display] ("When you're connected, the Cast button will turn
	from light to dark grey, letting you know that you're connected.");
	https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to
	speakers] ("The Cast button will change colors , letting you know you're connected.");
	https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and
	YouTube.com];
	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
	YouTube TV using Chromecast];
	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
	YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en
	[Chromecast-enabled site vs. casting a tab].
	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed
	to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and
	YouTube Kids apps, as illustrated by the following screenshots:

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Claim 1	Accused Instrumentalities
	Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also
	programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the
	following screenshot:
	ionowing scientifici.

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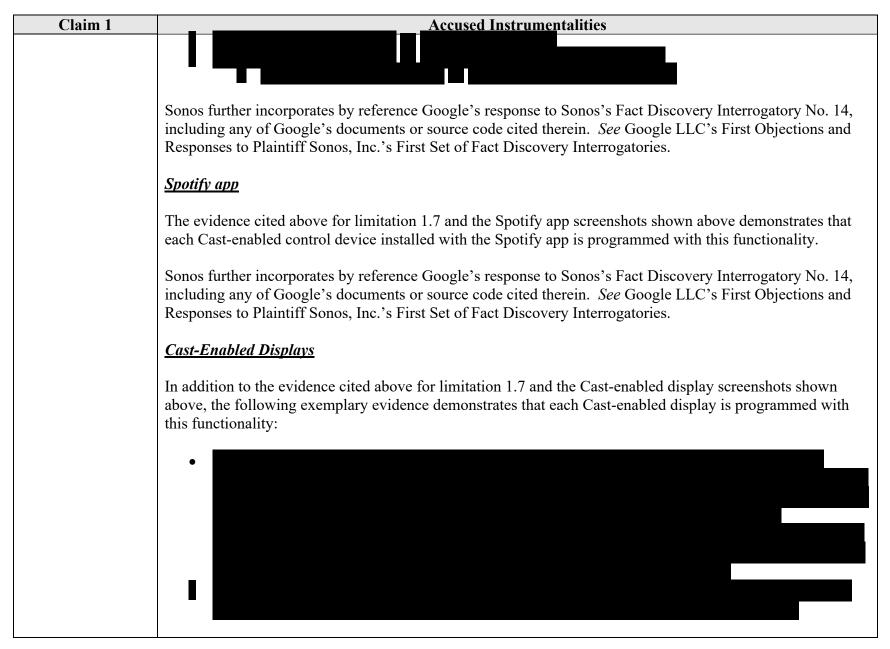
Ex. B – Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1 **Accused Instrumentalities** Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/. Each Cast-enabled display is also programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player, which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one other Cast-enabled media player that takes the form of a "Cast button" that is "filled in," turns "dark grey," and/or displays an indication associated with the Cast-enabled media player (among other factors confirming that the Cast-enabled display has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Castenabled media player). See, e.g., https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].

Claim 1 **Accused Instrumentalities** Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos: Onside Kick & Fake Spike lead to a wil.. **Bad Romance** Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo: Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality. Representative examples of other evidence demonstrating this functionality are summarized below.

Claim 1	Accused Instrumentalities
	YouTube, YouTube Music, YouTube TV, & YouTube Kids apps
	In addition to the evidence cited above for limitation 1.7 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:
	Representative excerpts of Google's YouTube app source code ²⁴ related to the aforementioned functionality include:

Claim 1	Accused Instrumentalities
	Representative excerpts of Google's YouTube Music app source code ²⁵ related to the aforementioned
	functionality include:
	Representative excerpts of Google's Cast-enabled media player source code ²⁶ related to the aforementioned functionality include:

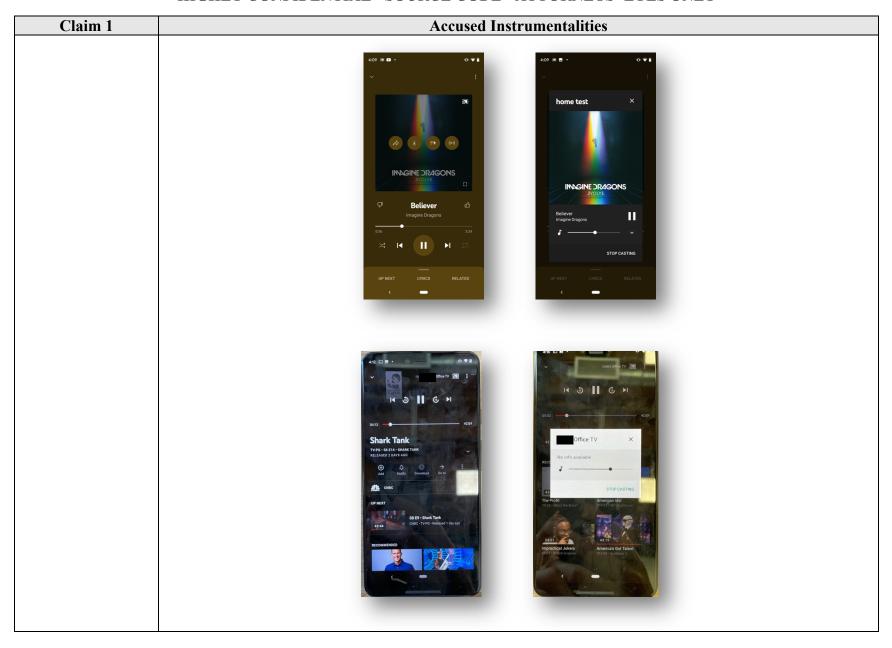


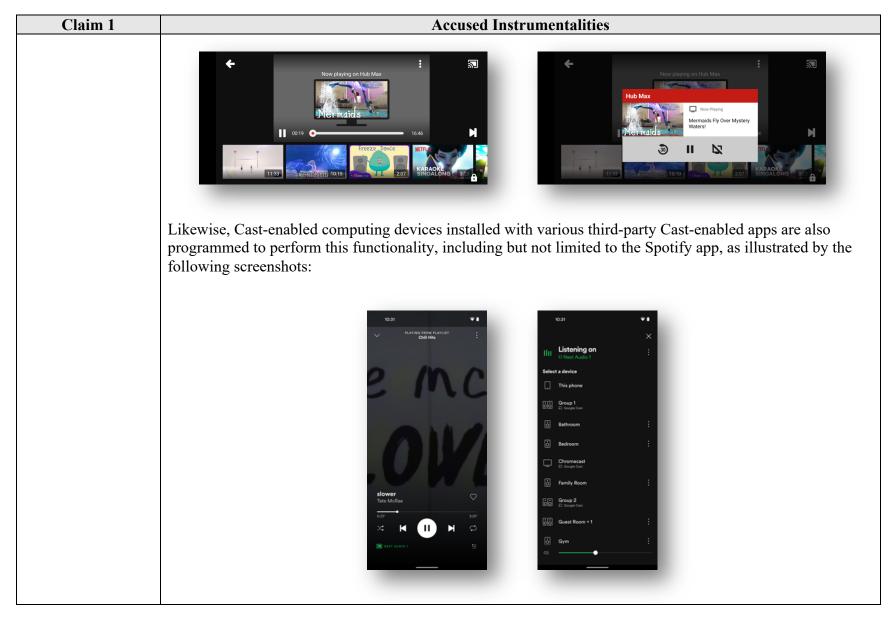
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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.9] after detecting	Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's
the indication,	non-transitory computer-readable medium that, when executed by the Cast-enabled control device's
transitioning from	processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first
i) the first mode in	mode in which the Cast-enabled control device is configured for playback of the remote playback queue to
which the	(ii) a second mode in which the Cast-enabled control device is configured to control the at least one given
computing device is	Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no
configured for	longer configured for playback of the remote playback queue.
playback of the	
remote playback	For instance, each Cast-enabled computing device is programmed such that, after detecting the indication that
queue to ii) a	playback responsibility for the remote playback queue has been successfully transferred from the Cast-
second mode in	enabled computing device to at least one Cast-enabled media player in the Cast-enabled playback system that
which the	is on the same Wi-Fi network as the Cast-enabled computing device (which is the claimed "at least one given
computing device is	playback device"), the Cast-enabled computing device is configured to transition from (i) a first mode in
configured to	which the Cast-enabled computing device was configured for playback of the remote playback queue to (ii) a
control the at least	second mode in which the Cast-enabled computing device is configured to control the at least one Cast-
one given playback	enabled media player's playback of the remote playback queue (while the Cast-enabled computing device
device's playback	itself is no longer configured for playback of the remote playback queue). See, e.g.,
of the remote	https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your
playback queue and	speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from
the computing	Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU
device is no longer	[Cast from the YouTube app and YouTube.com];
configured for	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
playback of the	YouTube TV using Chromecast];
remote playback	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
queue.	YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en
	[Chromecast-enabled site vs. casting a tab].

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Claim 1	Accused Instrumentalities
Claim 1	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:
	Next: Jarvis Landry: "We know who we are" TV guesse + 1/1 Next: Jarvis Landry: "We know who we are" TV guesse + 1/1





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Claim 1	Accused Instrumentalities
	Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i> , https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/ .
	Each Cast-enabled display is also programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled display (which is the claimed "at least one given playback device"), the Cast-enabled display is configured to transition from (i) a first mode in which the Cast-enabled display was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled display is configured to control the at least one other Cast-enabled media player's playback of the remote playback queue (while the Cast-enabled display itself is no longer configured for playback of the remote playback queue). See, e.g., https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]. Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:
	Onside Kick & Fake Spike lead to a wil Jomboy Media Lady Gagu BAD ROMANCE BAD ROMANCE BAD ROMANCE Lady Gagu BAD ROMANCE Lady Gagu BAD ROMANCE S.50 DI 4:55

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Claim 1	Accused Instrumentalities
	Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:
	JUSTICE HOLD On Justin Bieber
	Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.
	Representative examples of other evidence demonstrating this functionality are summarized below.
	YouTube, YouTube Music, YouTube TV, & YouTube Kids apps
	In addition to the evidence cited above for limitations 1.7-1.8 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Castenabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:

Claim 1	Accused Instrumentalities
	Representative excerpts of Google's YouTube app source code ²⁸ related to the aforementioned functionality include:

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	Spotify app
	The evidence cited above for limitations 1.7-1.8 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	<u>Cast-Enabled Displays</u>
	In addition to the evidence cited above for limitations 1.7-1.8 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:
	• https://developers.google.com/cast/docs/web_receiver/core_features ("Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using smart displays. Media stops playing on one device (the source) and continues on another (the destination) The event flow for stream transfer is:
	On the source device: a. Media stops playing. b. The Web Receiver application receives a command to save the current media state.
	c. The Web Receiver application is shut down. 2. On the destination device:
	a. The Web Receiver application is loaded.
	b. The Web Receiver application receives a command to restore the saved media state. c. Media resumes playing."

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

Claim 2	Accused Instrumentalities
[2.0] The	As described above, each Cast-enabled control device is a "computing device" as recited in claim 1.
computing device	Moreover, each Cast-enabled control device is programmed such that the instruction for the at least one given
of claim 1, [2.1]	Cast-enabled media player to take over responsibility for playback of the remote playback queue from the
wherein the	Cast-enabled control device comprises an instruction for the cloud-based computing system associated with
instruction	the cloud-based media service to provide the data identifying the next one or more media items to the given
comprises an	Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing
instruction for the	system associated with the cloud-based media service.
cloud-based	
computing system	For instance, a Cast-enabled control device installed with at least some of the Cast-enabled apps discussed
associated with the	above is programmed such that the instruction for the at least one given Cast-enabled media player to take
media service to	over responsibility for playback of the remote playback queue from the Cast-enabled control device
provide the data	comprises an instruction for one or more cloud servers associated with a cloud-based media service (e.g., a
identifying the next	Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service
one or more media	such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the
items to the given	Internet, which may be operated by Google or a third-party service provider, to provide data identifying the
playback device for	next one or more media items to the given Cast-enabled media player for use in retrieving the at least one
use in retrieving the	media item from the one or more cloud servers associated with the cloud-based media service. See, e.g.,
at least one media	https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your
item from the	speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from
cloud-based	Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU
computing system	[Cast from the YouTube app and YouTube.com];
associated with the	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
cloud-based media	YouTube TV using Chromecast];
service.	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
	YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
	media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing ;
	https://developers.google.com/cast/docs/ios_sender/queueing;

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Claim 2	Accused Instrumentalities
	https://developers.google.com/cast/docs/android_sender/queueing.
	For example, as explained above, a Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device performs a variety of functions to transfer playback responsibility from the Cast-enabled computing device to the particular Cast-enabled media player. See claim limitation 1.7. "Watch Next" server "videoIDs"
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

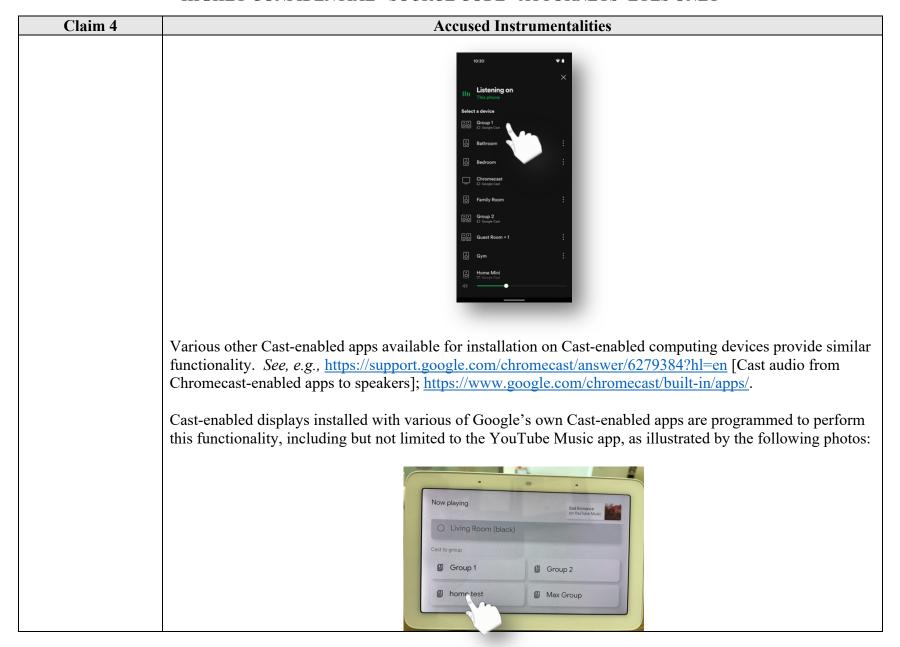
Claim 4	Accused Instrumentalities
[4.0] The	As described above, each Cast-enabled control device is a "computing device," as recited in claim 1.
computing device	Moreover, each Cast-enabled control device is programmed with the capability to perform the
of claim 1, [4.1]	aforementioned functions where (i) the representation of the one or more Cast-enabled media players
wherein the	comprises at least one selectable indicator for a group of Cast-enabled media players that includes the given
representation of	Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for
the one or more	synchronous playback of the remote playback queue and (ii) the user input indicating the selection of at least
playback devices	one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input
comprises at least	indicating a selection of the group of Cast-enabled media players.

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Claim 4	Accused Instrumentalities
one selectable	
indicator for a	For instance, each Cast-enabled control device is programmed with the capability to perform the
group of playback	aforementioned functions where (i) the representation of the one or more Cast-enabled media players
devices that	comprises a selectable indicator for a "speaker group" that includes the given Cast-enabled media player and
includes the given	one or more other Cast-enabled media players that are to be configured for synchronous playback of the
playback device	remote playback queue when the "speaker group" is launched, which amounts to the claimed "group of
and one or more	playback devices that are to be configured for synchronous playback of the remote playback queue", and
other playback	(ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or
devices that are to	more Cast-enabled media players comprises user input indicating a selection of the "speaker group." See, e.g.,
be configured for	https://support.google.com/googlenest/answer/7174267?hl=en-GB&co=GENIE.Platform=Android ("Group")
synchronous	any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for
playback of the	synchronous music throughout the home."); https://support.google.com/googlenest/answer/7181830 [Play
remote playback	media from Chromecast-enabled apps to your speaker or display];
queue, and wherein	https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and
the user input	YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one
indicating the	cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled
selection of at least	site vs. casting a tab].
one given playback	
device from the one	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed
or more playback	to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the
devices comprises	following screenshots:
user input	
indicating a	
selection of the	
group of playback	
devices.	

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Claim 4	Accused Instrumentalities
Claim 4	Accused Instrumentalities Cast to Math Floor Attic speaker Becogny M5 Becognand 35 Becognand Balance Pair (office TV Corf Room display) Group 1 Croup 2 Interior lest Croup 2 Interior lest Croup 2 Interior lest Croup 2
	Office speaker Kitchen (white)



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Claim 4	Accused Instrumentalities
	Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:
	Now playing Heat On post Audio 1 Nest Audio 2 Cast to group 2 New Bluetooth devic
	Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

Claim 7	Accused Instrumentalities
[7.0] The	As described above, each Cast-enabled control device is a "computing device," as recited in claim 1.
computing device	Moreover, each Cast-enabled control device is programmed such that operating in the first mode further
of claim 1, wherein:	involves providing a control interface comprising one or more selectable control icons that are configured to
[7.1] operating in	control playback of the remote playback queue by the Cast-enabled control device.
the first mode	
further involves	For instance, each Cast-enabled control device is programmed such that operating in a mode in which the
providing a control	Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud
interface	server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music,
comprising one or	YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that is remote from the Cast-
more selectable	enabled computing device and accessible over the Internet involves providing a control interface comprising

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Claim 7	Accused Instrumentalities
control icons that	one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) that are configured to control
are configured to	playback of the remote playback queue by the Cast-enabled control device. See, e.g.,
control playback of	https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your
the remote	speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from
playback queue by	Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU
the computing	[Cast from the YouTube app and YouTube.com];
device;	https://support.google.com/googlenest/answer/9165738?hl=en [Google Nest display with YouTube built-in];
	https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music;
	https://store.google.com/us/product/google_nest_hub_max?hl=en-US; see also claim limitation 1.4
	(illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display
	that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).
	Constitution of the Consti
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
[7.2]	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[7.2] transitioning	As described above, each Cast-enabled control device is a "computing device," as recited in claim 1.
from the first mode	Moreover, each Cast-enabled control device is programmed such that transitioning from the first mode to the
to the second mode	second mode further involves modifying the control interface such that the one or more selectable control
further involves	icons (e.g., the Pause icon, the Skip icon, etc.) are configured to control playback of the remote playback
modifying the	queue by the at least one Cast-enabled media player instead of the Cast-enabled control device.
control interface	
such that the one or	For instance, each Cast-enabled control device is programmed such that transitioning from the first mode in
more selectable	which the Cast-enabled control device was configured for playback of the remote playback queue to the
control icons are	second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled
configured to	media player's playback of the remote playback queue (while the Cast-enabled control device itself is no
control playback of	longer configured for playback of the remote playback queue) further involves modifying the control
the remote	interface such that the one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) are
playback queue by	configured to control playback of the remote playback queue by the at least one Cast-enabled media player
the at least one	instead of the Cast-enabled control device. See, e.g., https://support.google.com/googlenest/answer/7181830
playback device	[Play media from Chromecast-enabled apps to your speaker or display] ("You can even use your mobile
instead of the	device or tablet as a remote and control everything from playback to volume.");
computing device.	https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to

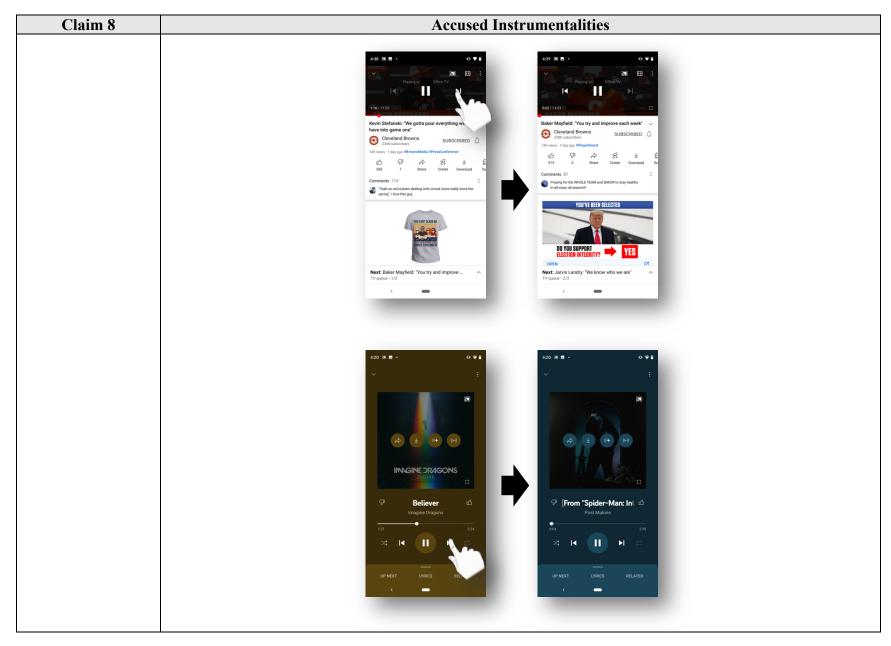
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Claim 7	Accused Instrumentalities
	speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app
	and YouTube.com] ("To play, pause or navigate with the scrollbar, use your device as you normally would to
	control playback.");
	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
	YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
	media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en
	[Chromecast-enabled site vs. casting a tab]; see also claim limitation 1.9 (illustrating examples of this
	functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least
	the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14,
	including any of Google's documents or source code cited therein. See Google LLC's First Objections and
	Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

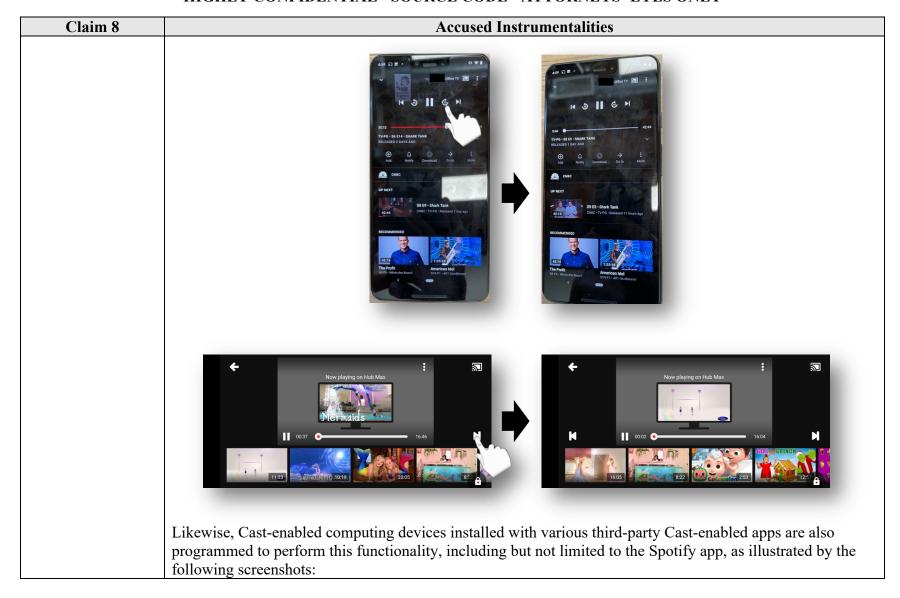
Claim 8	Accused Instrumentalities
[8.0] The	As described above, each Cast-enabled control device is a "computing device," as recited in claim 7.
computing device	Moreover, each Cast-enabled control device further comprises program instructions stored on the Cast-
of claim 7, further	enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled
comprising	control device's processor, cause the Cast-enabled control device to, after transitioning to the second mode,
program	receive user input indicating a selection of a given control icon of the one or more selectable control icons,
instructions stored	wherein the given control icon corresponds to a given transport control operation, and based on receiving the
on the non-	user input indicating the selection of the given control icon, cause the corresponding transport control
transitory	operation to be executed by the given Cast-enabled media player.
computer-readable	
medium that, when	For instance, each Cast-enabled control device is programmed with the capability to, after transitioning to the
executed by the at	second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled
least one processor,	media player's playback of the remote playback queue (while the Cast-enabled control device itself is no
cause the	longer configured for playback of the remote playback queue), receive user input indicating a selection of a
computing device	given control icon (e.g., a Play/Pause icon, a Skip icon, etc.) of the one or more selectable control icons,
to perform	where the given control icon corresponds to a given transport control operation (e.g., play/pause, skip, etc.),
functions	and based on receiving the user input indicating the selection of the given control icon, cause the
comprising: [8.1]	corresponding transport control operation (e.g., play/pause, skip, etc.) to be executed by the given Cast-

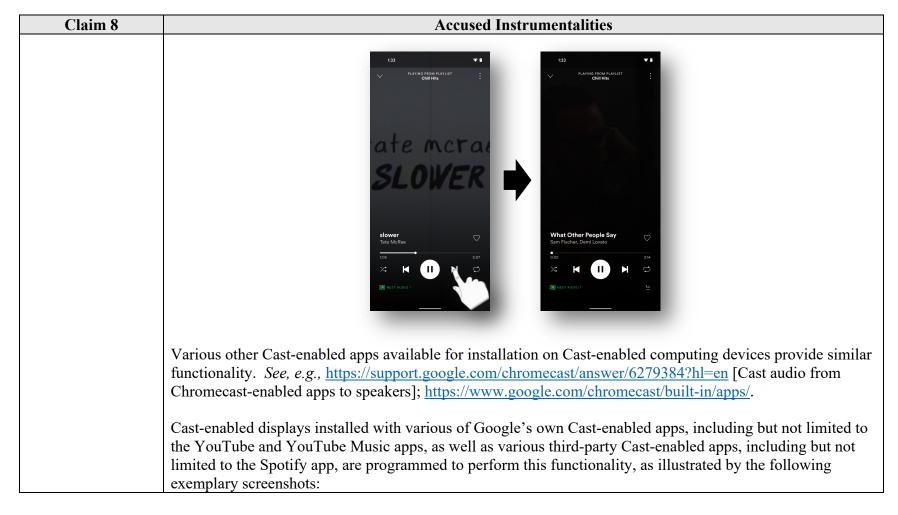
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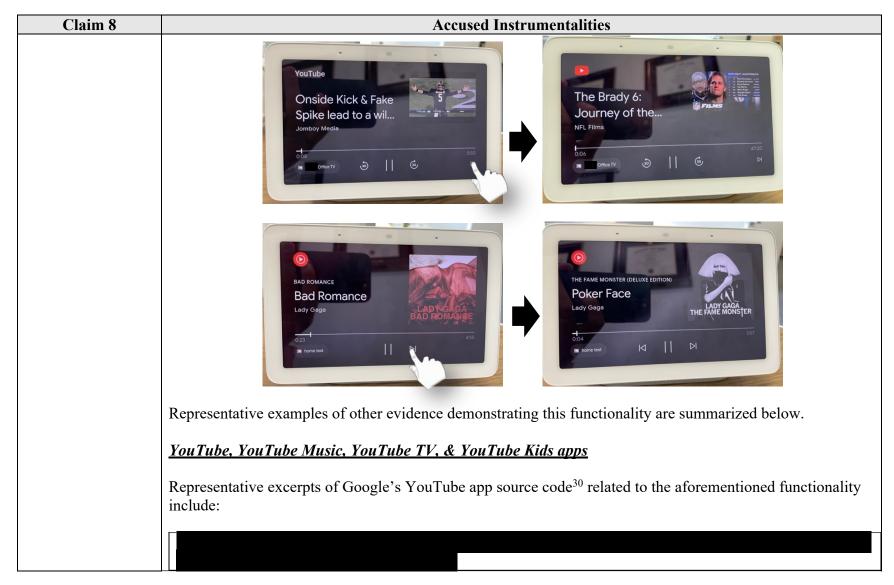
Claim 8	Accused Instrumentalities
after transitioning	enabled media player. See, e.g., https://support.google.com/googlenest/answer/7181830 [Play media from
to the second mode,	Chromecast-enabled apps to your speaker or display] ("You can even use your mobile device or tablet as a
receiving user input	remote and control everything from playback to volume.");
indicating a	https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to
selection of a given	speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app
control icon of the	and YouTube.com] ("To play, pause or navigate with the scrollbar, use your device as you normally would to
one or more	control playback.");
selectable control	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
icons, wherein the	YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
given control icon	media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en
corresponds to a	[Chromecast-enabled site vs. casting a tab];
given transport	https://developer.android.com/reference/android/media/session/MediaController.TransportControls.
control operation;	
and [8.2] based on	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed
receiving the user	to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and
input indicating the	YouTube Kids apps, as illustrated by the following screenshots:
selection of the	
given control icon,	
causing the	
corresponding	
transport control	
operation to be	
executed by the	
given playback	
device.	



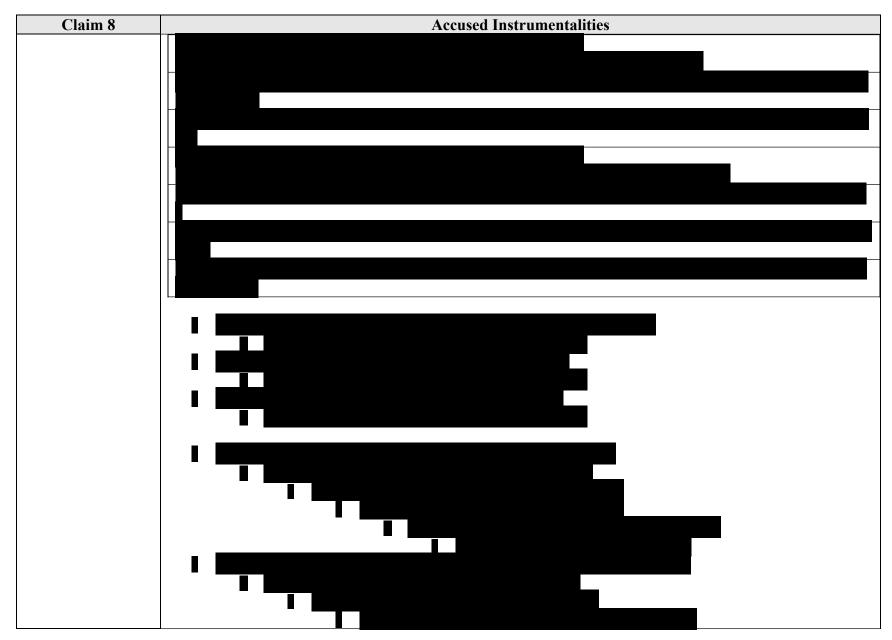
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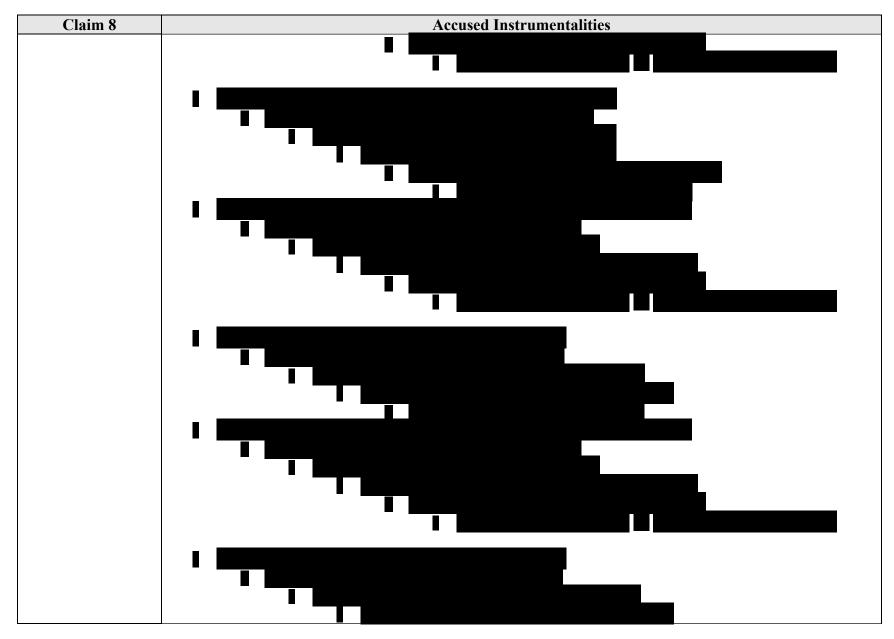




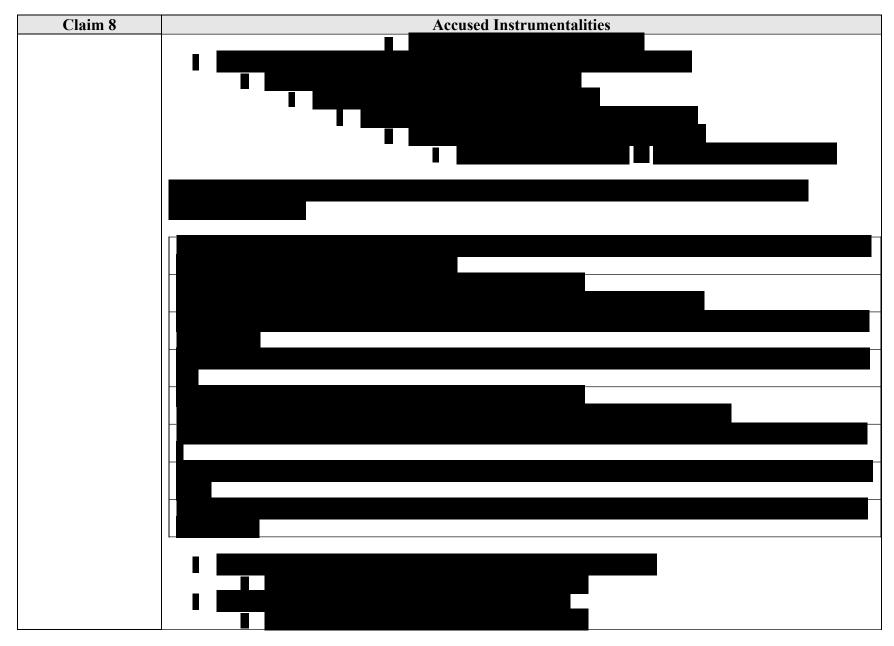
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



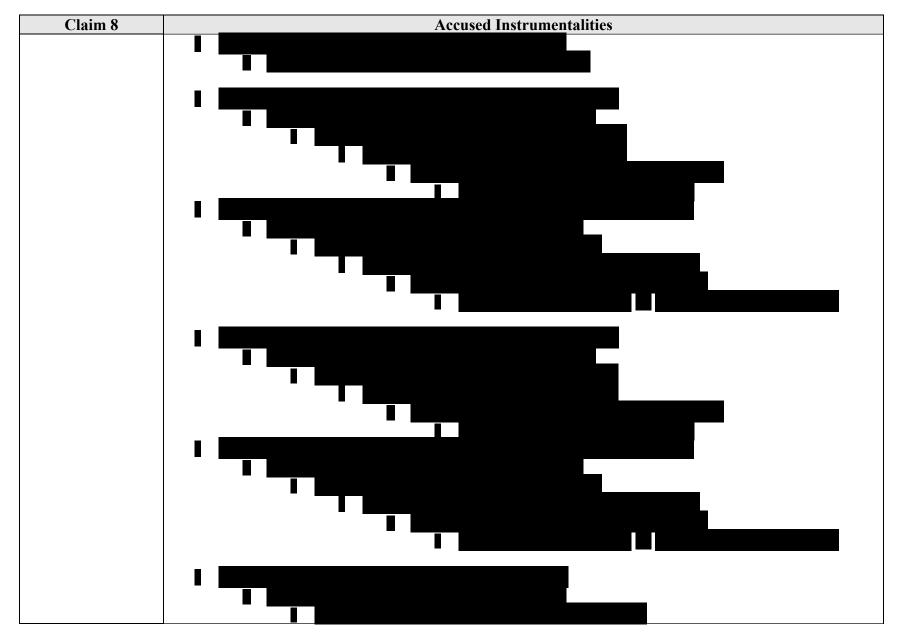
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

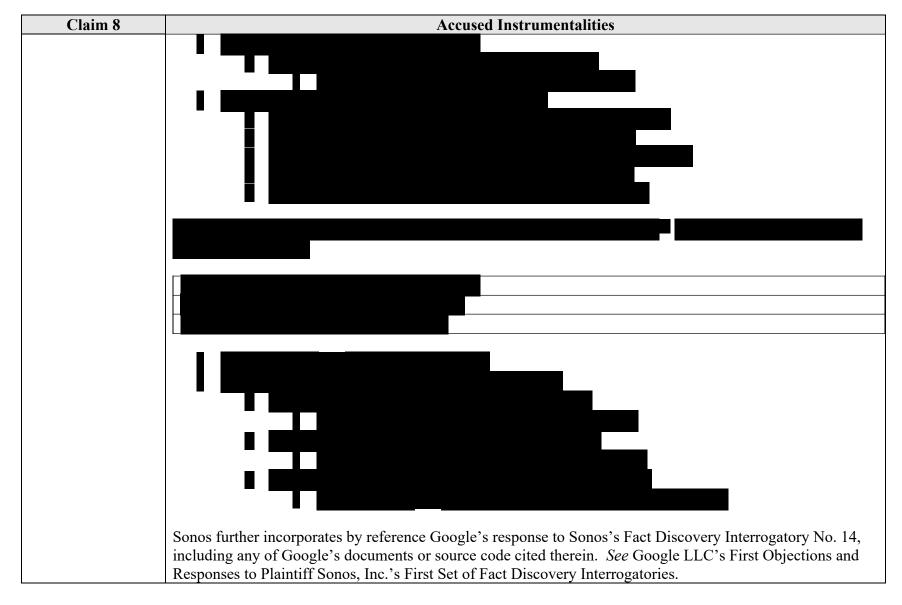


Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY



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Claim 8	Accused Instrumentalities
Claim o	
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories. **Cast-Enabled Displays** Representative excerpts of Google's Cast-enabled display source code ³⁴ related to the aforementioned
	functionality include:



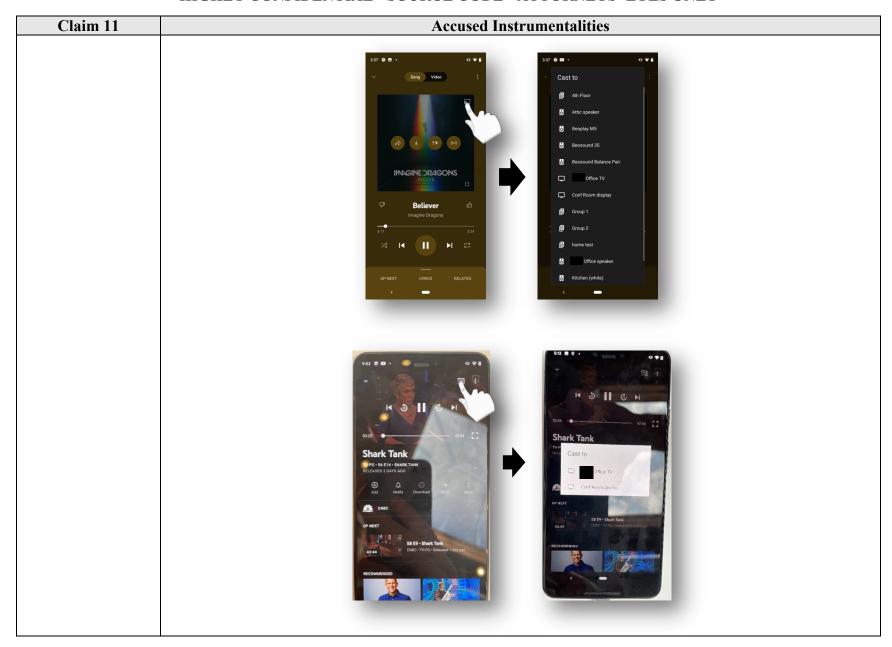
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Claim 9	Accused Instrumentalities
[9.0] The	As described above, each Cast-enabled control device is a "computing device," as recited in claim 8.
computing device	Moreover, each Cast-enabled control device is programmed with the capability to perform the
of claim 8, [9.1]	aforementioned functions where the transport control operation comprises one of a play operation, a pause
wherein the	operation, a skip forward operation, or a skip back operation. See claim limitations 8.1-8.2.
transport control	
operation comprises	
one of a play	
operation, a pause	
operation, a skip	
forward operation,	
or a skip back	
operation.	

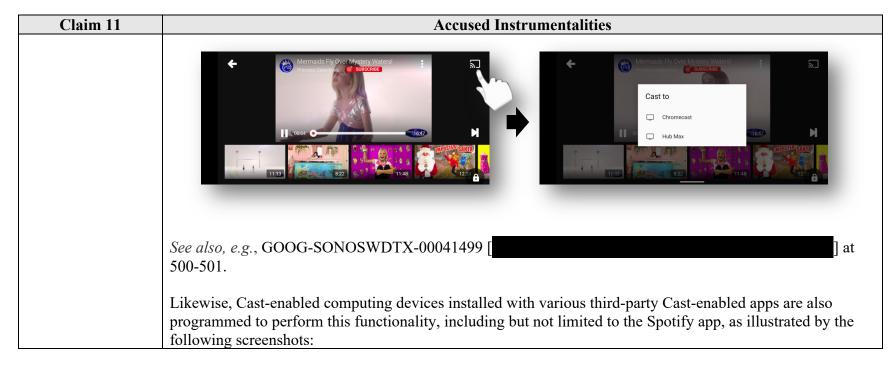
Claim 11	Accused Instrumentalities
[11.0] The	As described above, each Cast-enabled control device is a "computing device," as recited in claim 1.
computing device	Moreover, each Cast-enabled control device is programmed such that displaying the representation of the one
of claim 1, wherein	or more Cast-enabled media players comprises displaying the representation of the one or more Cast-enabled
displaying the	media players in response to receiving a selection of a displayed icon indicating that playback responsibility
representation of	for the remote playback queue can be transferred.
the one or more	
playback devices	For instance, each Cast-enabled control device is programmed such that displaying a list of available devices
comprises: [11.1]	for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback
displaying the	system comprises displaying the list of available devices for transferring playback that includes one or more
representation of	Cast-enabled media players in the Cast-enabled playback system in response to receiving a selection of a
the one or more	displayed icon (e.g., a "Cast button") indicating that playback responsibility for the remote playback queue
playback devices in	can be transferred. See, e.g., https://support.google.com/googlenest/answer/7181830 [Play media from
response to	Chromecast-enabled apps to your speaker or display] ("Tap the Cast button 🖫 Tap the speaker or display
receiving a	for which you'd like to cast."); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio
selection of a	from Chromecast-enabled apps to speakers] ("2. In the top right corner, tap the Cast button \(\square \). 3. Choose your
displayed icon	speaker."); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app
indicating that	and YouTube.com] ("Tap the Cast button \square Tap the Chromecast device to which you want to cast.");

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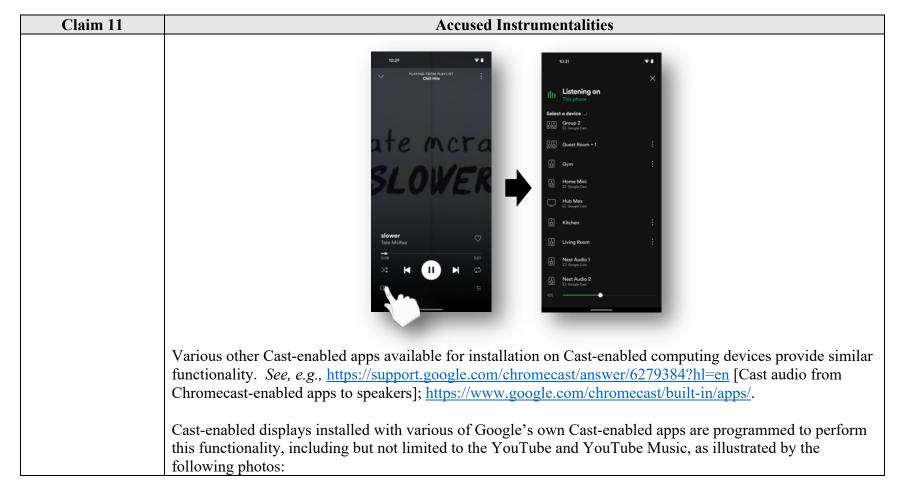
Claim 11	Accused Instrumentalities
playback	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
responsibility for	YouTube TV using Chromecast] ("Tap Cast □. This is found at the top of the app Home screen. ☐Choose
the remote	the device you want to cast to.");
playback queue can	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
be transferred.	YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move
	media from one cast device to another] ("At the bottom-left corner of the screen, tap Devices \(\sqrt{1}\) to see the list
	of available devices and speaker groups Select the device for which you want to move your media.");
	https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].
	Cost analytical commuting devices installed with various of Costale's arm Cost analytical constant and arms are
	Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and
	YouTube Kids, as illustrated by the following screenshots:
	Tourube Rius, as musuated by the following serectishots.
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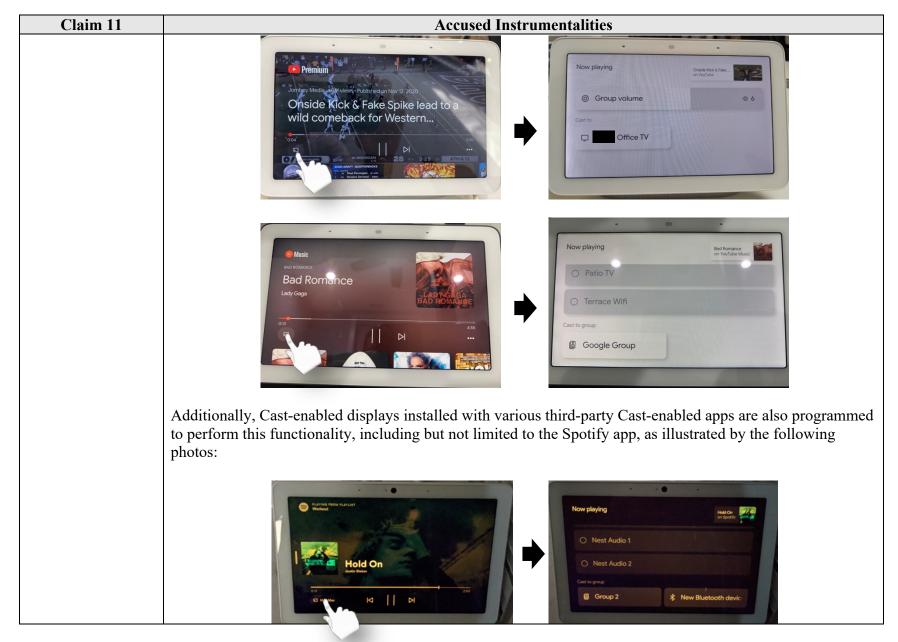


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Claim 11	Accused Instrumentalities
	Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

Claim 12	Accused Instrumentalities
[12.0] A non-	Google's "Cast" technology enables an "Android, iOS, or Web app to direct its streaming video and audio to
transitory	a TV or sound system," where the app "becomes the remote control to play, pause, seek, rewind, stop, and
computer-readable	otherwise control the media." https://developers.google.com/cast . In Google's "Cast" framework, there are
medium having	two core categories of devices: (1) "sender" devices, which are computing devices installed with a Cast-
stored thereon	enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled
program	site URL ³⁶ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com, and (2) "receiver"
instructions that,	devices, which are Cast-enabled media players such as an audio or video playback device. See, e.g.,
when executed by	https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary;
at least one	https://developers.google.com/cast/docs/ux_guidelines.
processor, cause a	
computing device	There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to
to perform	transfer playback of streaming media content from the user's smartphone, tablet, or computer device to a
functions	Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled
comprising:	app. This includes Google's own Cast-enabled apps, such as the YouTube app, YouTube Music app, the
	YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps,
	such as the Spotify app. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en ;
	https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any
	smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps,
	including Google's own "Pixel" smartphone, tablet, and computer devices (e.g., the Pixel, Pixel XL, Pixel 2,
	Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5,
	Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as

³⁶ See, e.g., https://support.google.com/chromecast/answer/3265953?hl=en.

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Claim 12	Accused Instrumentalities
	many third-party smartphone, tablet, or computer device. See, e.g.,
	https://store.google.com/us/magazine/compare_pixel;
	https://store.google.com/us/product/google_pixelbook_specs;
	https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (e.g., accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app will be referred to as a "Cast-enabled computing device."
	As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that comprises a tangible, non-transitory computer-readable storage medium that, when installed with a Cast-enabled app, includes executable instructions that when executed by a processor causes the device to carry out the recited functions, but notes that this tangible, non-transitory computer-readable storage medium has become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains this aspect and thus meets this element.
	There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.</i> , https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; ; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; ; https://store.google.com/chromecast/built-in/audio/ .

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Claim 12	Accused Instrumentalities
	Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-
	enabled media players to additionally function as a control device for other Cast-enabled media players. This
	sub-category of Cast-enabled media players, which will be referred to herein as "Cast-enabled displays,"
	includes Google's Home Hub, Nest Hub, and Nest Hub Max media players. See, e.g.,
	https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music;
	https://store.google.com/us/product/google_nest_hub_max?hl=en-US;
	https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps)
	that allows a user to transfer playback of streaming media content from the Cast-enabled display to another
	Cast-enabled media player and then control that other Cast-enabled media player's playback using the Cast-
	enabled display's user interface. For purposes of this chart, Cast-enabled computing devices and Cast-
	enabled displays may be referred to collectively as "Cast-enabled control devices."
	Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google
	(sometimes referred to as Google Cloud Platform or "GCP" for short) that facilitates the aforementioned Cast
	functionality for transferring playback of streaming media content from a Cast-enabled control device to a
	Cast-enabled media player and/or controlling the Cast-enabled media player's playback.
	As described in further detail below, each Cast-enabled control device is a "computing device" that comprises
	a non-transitory computer-readable medium having program instructions stored thereon that, when executed by the Cast-enabled control device's processor, cause that Cast-enabled control device to perform the
	functions recited in claim 12. Further, each server that hosts at least one of the aforementioned Cast-enabled
	apps for download onto Cast-enabled computing devices, which is referred to herein as a "Cast-enabled app
	download server," comprises a tangible, non-transitory computer-readable storage medium having program
	instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause that Cast-
	enabled control device to perform the functions recited in claim 12. Further yet, because each Cast-enabled
	media player is a data network device (i.e., a device that is configured to connect to and communicate over a
	medium that interconnects devices in a manner that enables them to send digital data packets to and receive
	digital data packets from each other) and is configured to process and output audio, each Cast-enabled media
	player comprises a "playback device" as recited in claim 12. See, e.g., Pl.'s Opening Markman Br. (D.I. 60 of
	20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.'s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp.
	2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15;

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Claim 12	Accused Instrumentalities
	https://support.google.com/googlenest/answer/7072284?hl=en;
	https://support.google.com/chromecast/answer/3046409?hl=en;
	https://store.google.com/us/product/nest_wifi_specs?hl=en-US.
[12.1] operating in	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory
a first mode in	computer-readable medium having program instructions stored thereon that, when executed by a Cast-
which the	enabled control device's processor, cause the Cast-enabled control device to operate in a first mode in which
computing device is	the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-
configured for	based computing system associated with a cloud-based media service. See claim limitation 1.4.
playback of a	
remote playback	
queue provided by	
a cloud-based	
computing system	
associated with a	
cloud-based media	
service;	
[12.2] while	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory
operating in the first mode,	computer-readable medium having program instructions stored thereon that, when executed by a Cast-
displaying a	enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system
representation of	that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii)
one or more	available to accept playback responsibility for the remote playback queue. See claim limitation 1.5.
playback devices in	available to accept playback responsibility for the remote playback queue. See claim inintation 1.5.
a media playback	
system that are each	
i) communicatively	
coupled to the	
computing device	
over a data network	
and ii) available to	
accept playback	
responsibility for	

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Claim 12	Accused Instrumentalities
the remote	
playback queue;	
[12.3] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.
[12.4] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given playback device to (i) communicate	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. See claim limitation 1.7.

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Claim 12	Accused Instrumentalities
with the cloud-	
based computing	
system in order to	
obtain data	
identifying a next	
one or more media	
items that are in the	
remote playback	
queue, (ii) use the	
obtained data to	
retrieve at least one	
media item in the	
remote playback	
queue from the	
cloud-based media	
service; and (iii)	
play back the	
retrieved at least	
one media item	
[12.5] detecting an	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory
indication that	computer-readable medium having program instructions stored thereon that, when executed by a Cast-
playback	enabled control device's processor, cause the Cast-enabled control device to detect an indication that
responsibility for	playback responsibility for the remote playback queue has been successfully transferred from the Cast-
the remote	enabled control device to the at least one given Cast-enabled media player. See claim limitation 1.8.
playback queue has	
been successfully	
transferred from the	
computing device	
to the at least one	
given playback	
device;	

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Claim 12	Accused Instrumentalities
[12.6] and after	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory
detecting the	computer-readable medium having program instructions stored thereon that, when executed by a Cast-
indication,	enabled control device's processor, cause the Cast-enabled control device to, after detecting the indication,
transitioning from	transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the
i) the first mode in	remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to
which the	control the at least one given Cast-enabled media player's playback of the remote playback queue and the
computing device is	Cast-enabled control device is no longer configured for playback of the remote playback queue. See claim
configured for	limitation 1.9.
playback of the	
remote playback	
queue to ii) a	
second mode in	
which the	
computing device is	
configured to	
control the at least	
one given playback	
device's playback	
of the remote	
playback queue and	
the computing	
device is no longer	
configured for	
playback of the	
remote playback	
queue.	

Claim 13	Accused Instrumentalities
[13.0] The non-	As described above, each Cast-enabled control device and each Cast-enabled app download server comprises
transitory	a "non-transitory computer-readable medium," as recited in claim 12. Moreover, in accordance with the
computer-readable	program instructions, each Cast-enabled control device is programmed such that the instruction for the at least
medium of claim	one given Cast-enabled media player to take over responsibility for playback of the remote playback queue

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Claim 13	Accused Instrumentalities
12, [13.1] wherein	from the Cast-enabled control device comprises an instruction for the cloud-based computing system
the instruction	associated with the cloud-based media service to provide the data identifying the next one or more media
comprises an	items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-
instruction for the	based computing system associated with the cloud-based media service. See claim limitation 2.1.
cloud-based	
computing system	
associated with the	
cloud-based media	
service to provide	
the data identifying	
the next one or	
more media items	
to the given	
playback device for	
use in obtaining the	
at least one media	
item from the	
cloud-based	
computing system	
associated with the	
cloud-based media	
service.	

Claim 15	Accused Instrumentalities
[15.0] A method	Google's "Cast" technology enables an "Android, iOS, or Web app to direct its streaming video and audio to
carried out by a	a TV or sound system," where the app "becomes the remote control to play, pause, seek, rewind, stop, and
computing device,	otherwise control the media." https://developers.google.com/cast . In Google's "Cast" framework, there are
the method	two core categories of devices: (1) "sender" devices, which are computing devices installed with a Cast-
comprising:	enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled
	site URL ³⁷ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2)

³⁷ See, e.g., https://support.google.com/chromecast/answer/3265953?hl=en.

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Claim 15	Accused Instrumentalities
	"receiver" devices, which are Cast-enabled media players such as an audio or video playback device. See,
	e.g., https://developers.google.com/cast/glossary ;
	https://developers.google.com/cast/docs/ux_guidelines.
	There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user's smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app. This includes Google's own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See</i> , <i>e.g.</i> , https://support.google.com/chromecast/answer/6279384?hl=en; , https://support.google.com/chromecast/answer/6279384?hl=en; , https://support.google.com/chromecast/answer/6279384?hl=en; , https://swww.google.com/chromecast/built-in/apps/ . These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer devices (<i>e.g.</i> , the Pixel, Pixel XL, Pixel 2, Pixel 2, XL, Pixel 3, Pixel 3, Pixel 3, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4, Pixel 4a, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, ta
	via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app will be referred to as a "Cast-enabled computing device"
	As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that were capable of being installed with a

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Claim 15	Accused Instrumentalities
	Cast-enabled app but notes that each possible third-party smartphone, tablet, and computer device listed in
	Appendix 1 was capable of being installed with a Cast-enabled app.
	There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.</i> , https://store.google.com/us/product/google_home_max?hl=en-US; ; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; ; https://store.google.com/chromecast/built-in/audio/ .
	Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as "Cast-enabled displays," includes Google's Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.</i> , https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en . Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player's playback using the Cast-enabled display's user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as "Cast-enabled control devices."
	Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or "GCP" for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player's playback.
	As described in further detail below, each Cast-enabled control device is a "computing device" that practices the method of claim 15. Further, because each Cast-enabled media player is a data network device (<i>i.e.</i> , a

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Claim 15	Accused Instrumentalities
	device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a "playback device" as recited in claim 15. <i>See</i> , <i>e.g.</i> , Pl.'s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.'s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; ; https://support.google.com/chromecast/answer/3046409?hl=en; ; https://store.google.com/us/product/nest_wifi_specs?hl=en-US.
[15.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;	Each Cast-enabled control device practices the step of operating in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. See claim limitation 1.4.
[15.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively	Each Cast-enabled control device practices the step of, while operating in the first mode, displaying a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.

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Claim 15	Accused Instrumentalities
coupled to the	
computing device	
over a data network	
and ii) available to	
accept playback	
responsibility for	
the remote	
playback queue;	
[15.3] while	Each Cast-enabled control device practices the step of, while displaying the representation of the one or more
displaying the	Cast-enabled media players, receiving user input indicating a selection of at least one given Cast-enabled
representation of	media player from the one or more Cast-enabled media players. See claim limitation 1.6.
the one or more	
playback devices,	
receiving user input	
indicating a	
selection of at least	
one given playback	
device from the one	
or more playback	
devices;	
[15.4] based on	Each Cast-enabled control device practices the step of, based on receiving the user input, transmitting an
receiving the user	instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the
input, transmitting	remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least
an instruction for	one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to
the at least one	obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the
given playback	obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media
device to take over	service; and (iii) play back the retrieved at least one media item. See claim limitation 1.7.
responsibility for	
playback of the	
remote playback	
queue from the	
computing device,	

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Claim 15	Accused Instrumentalities
wherein the	
instruction	
configures the at	
least one given	
playback device to	
(i) communicate	
with the cloud-	
based computing	
system in order to	
obtain data	
identifying a next	
one or more media	
items that are in the	
remote playback	
queue, (ii) use the	
obtained data to	
retrieve at least one	
media item in the	
remote playback	
queue from the	
cloud-based media	
service; and (iii)	
play back the	
retrieved at least	
one media item;	
[15.5] detecting an	Each Cast-enabled control device practices the step of detecting an indication that playback responsibility for
indication that	the remote playback queue has been successfully transferred from the Cast-enabled control device to the at
playback	least one given Cast-enabled media player. See claim limitation 1.8.
responsibility for	
the remote	
playback queue has	
been successfully	

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Claim 15	Accused Instrumentalities
transferred from the	
computing device	
to the at least one	
given playback	
device;	
[15.6] and after	Each Cast-enabled control device practices the step of, after detecting the indication, transitioning from (i) the
detecting the	first mode in which the Cast-enabled control device is configured for playback of the remote playback queue
indication,	to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given
transitioning from	Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no
i) the first mode in	longer configured for playback of the remote playback queue. See claim limitation 1.9.
which the	
computing device is	
configured for	
playback of the	
remote playback	
queue to ii) a	
second mode in	
which the	
computing device is	
configured to	
control the at least	
one given playback	
device's playback	
of the remote	
playback queue and	
the computing	
device is no longer	
configured for	
playback of the	
remote playback	
queue.	

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Claim 16	Accused Instrumentalities
[16.0] The	As described above, each Cast-enabled control device is a "computing device" as recited in claim 1.
computing device	Moreover, each Cast-enabled control device further comprises instructions stored on the Cast-enabled control
of claim 1, further	device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's
comprising	processor, cause the Cast-enabled control device to, before displaying the representation of the one or more
program	Cast-enabled media players, receive an indication that the one or more Cast-enabled media players in the
instructions stored	Cast-enabled media playback system are available to accept playback responsibility for the remote playback
on the non-	queue.
transitory	
computer-readable	For instance, each Cast-enabled control device is programmed with the capability to, before displaying a list
medium that, when	of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-
executed by the at	enabled playback system, receive an indication that the one or more Cast-enabled media players in the Cast-
least one processor,	enabled media playback system are available to accept playback responsibility for the remote playback queue,
cause the	which is demonstrated by the fact that each Cast-enabled control device is capable of displaying the list of
computing device	devices that are available for casting. See, e.g., https://support.google.com/googlenest/answer/7181830 [Play
to perform	media from Chromecast-enabled apps to your speaker or display] ("Tap the Cast button \square Tap the
functions	speaker or display for which you'd like to cast.");
comprising: [16.1]	https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to
before displaying	speakers] ("2. In the top right corner, tap the Cast button \bigsilon 3. Choose your speaker.");
the representation	https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and
of the one or more	YouTube.com] ("Tap the Cast button 🗊 Tap the Chromecast device to which you want to cast.");
playback devices,	https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast
receiving an	YouTube TV using Chromecast] ("Tap Cast □. This is found at the top of the app Home screen. ☐Choose
indication that the	the device you want to cast to.");
one or more	https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch
playback devices in	YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en
the media playback	[Chromecast-enabled site vs. casting a tab]; https://support.google.com/googlenest/answer/9563059?hl=en-IN
system are	[Move media from one cast device to another] ("At the bottom-left corner of the screen, tap Devices \square to see
available to accept	the list of available devices and speaker groups Select the device for which you want to move your
playback	media.").
responsibility for	
the remote	This functionality is evidenced by the screenshots above in connection with claim limitation 1.5, which
playback queue.	demonstrate that a Cast-enabled control device installed with any one of the YouTube app, the YouTube

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Claim 16	Accused Instrumentalities
	Music app, the YouTube TV app, or the Spotify app (among other Cast-enabled apps) functions to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.
	The evidence also shows that a Cast-enabled control device receives this indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes (Representative examples of this evidence are identified below.
	YouTube, YouTube Music, YouTube TV, & YouTube Kids apps
	The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:

Claim 16	Accused Instrumentalities
	<u> </u>

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Claim 16	Accused Instrumentalities

Claim 16	Accused Instrumentalities
	Representative excerpts of Google's YouTube ³⁸ and YouTube Music ³⁹ app source code related to the aforementioned functionality include:
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	Spotify app
	Each Cast-enabled control device installed with the Spotify app (which is Cast-enabled and utilizes the Cast SDK) is programmed to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes, such as a discovery process facilitated by the Cast SDK, as demonstrated by the following exemplary evidence:

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	• https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (listing Spotify as one of the "Chromecast-enabled apps").
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
	<u>Cast-Enabled Displays</u>
	The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:
	• https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] ("At the bottom-left corner of the screen, tap Devices to see the list of available devices and speaker groups.").
	Representative excerpts of Google's source code ⁴⁰ related to the aforementioned functionality include:

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Claim 16	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.